

GEORGE ENGELMANN
BOTANICAL NOTEBOOKS

Pagination Note:

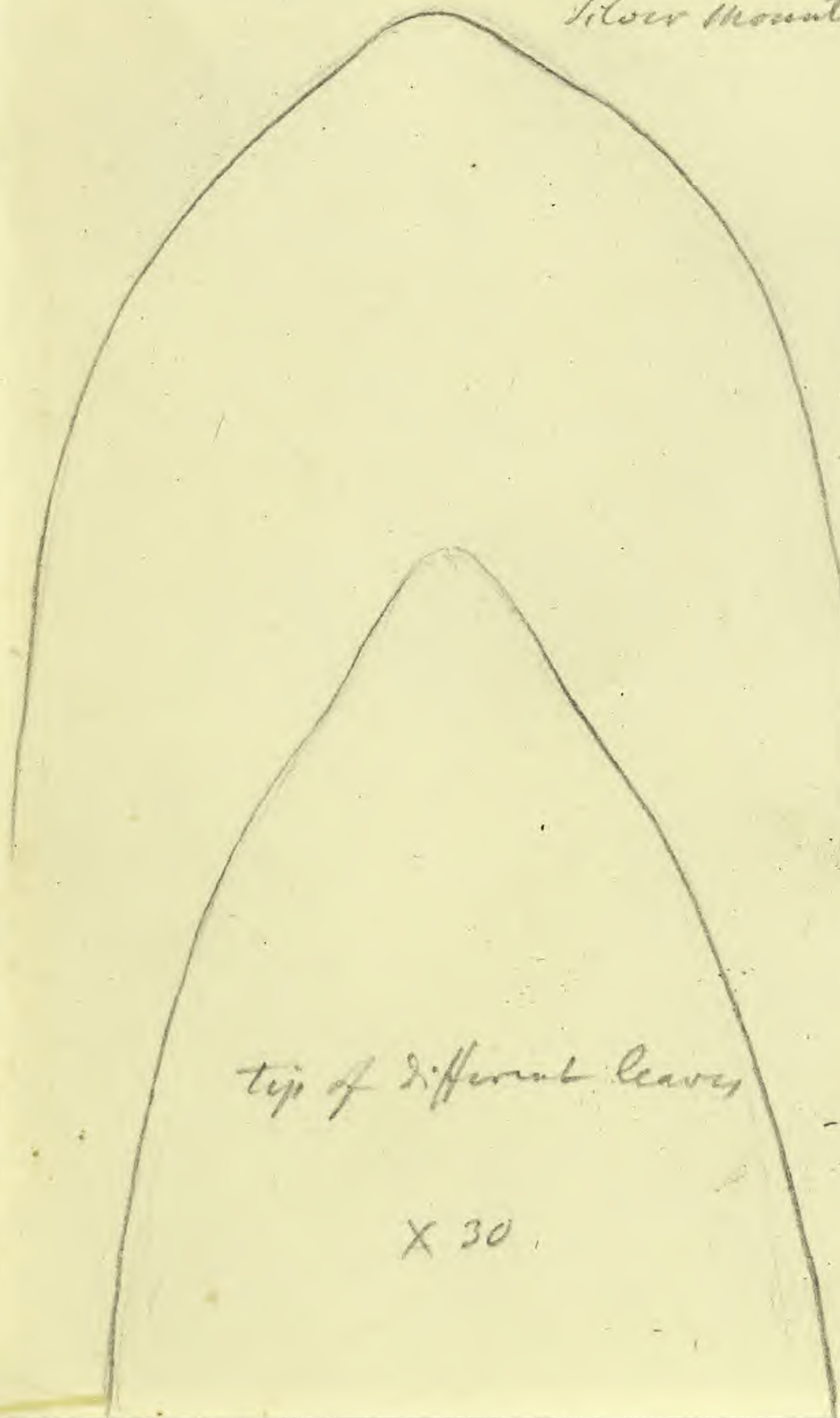
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

"Abies amabilis"

April 22 1871

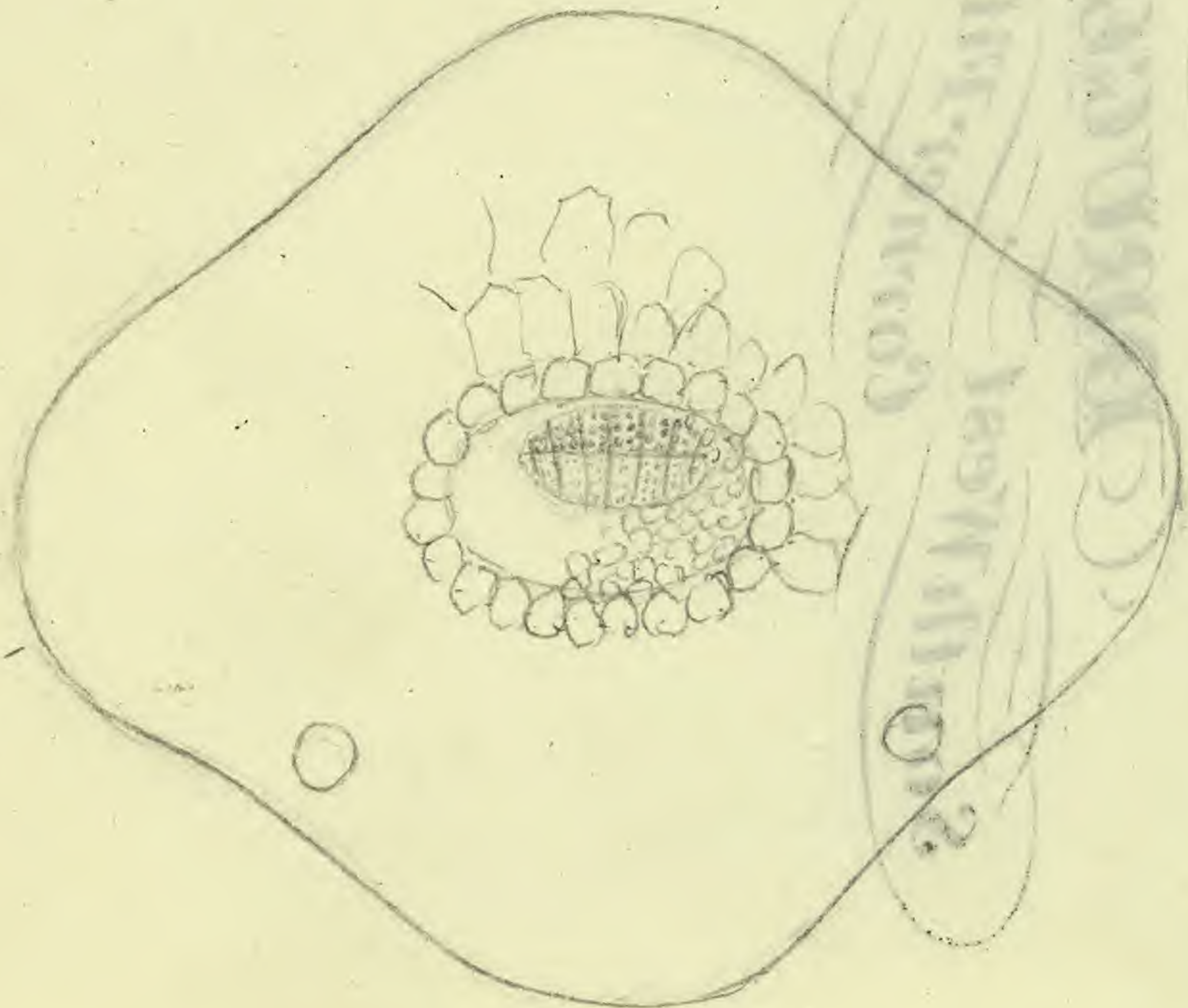
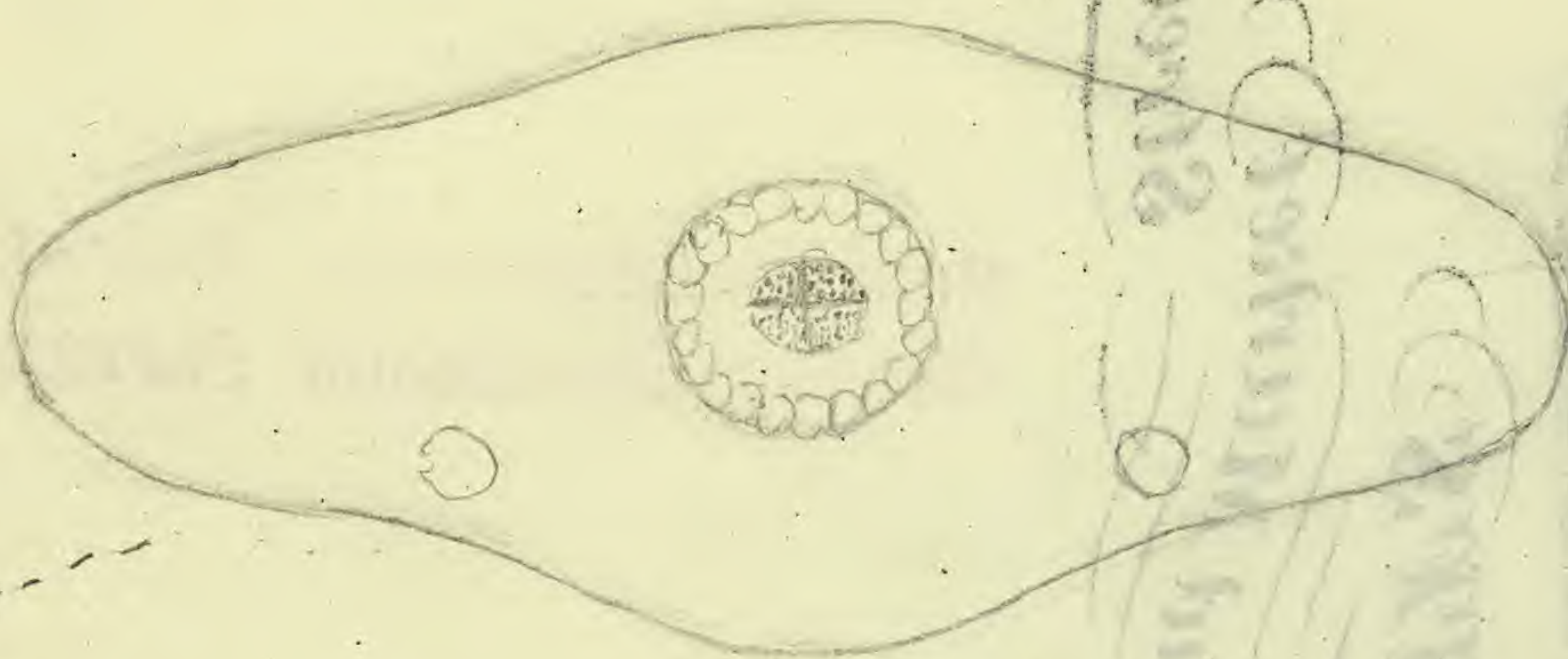
Silver Mountain trail, Calif. Prof. Brewer

leaves on the cone-bearing branchlet



tip of different leaves

X 30



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
BOTANICAL
GARDEN

12627

Leitch & Corlies

Carriers

South West
Corner Fifth
and Market
Streets

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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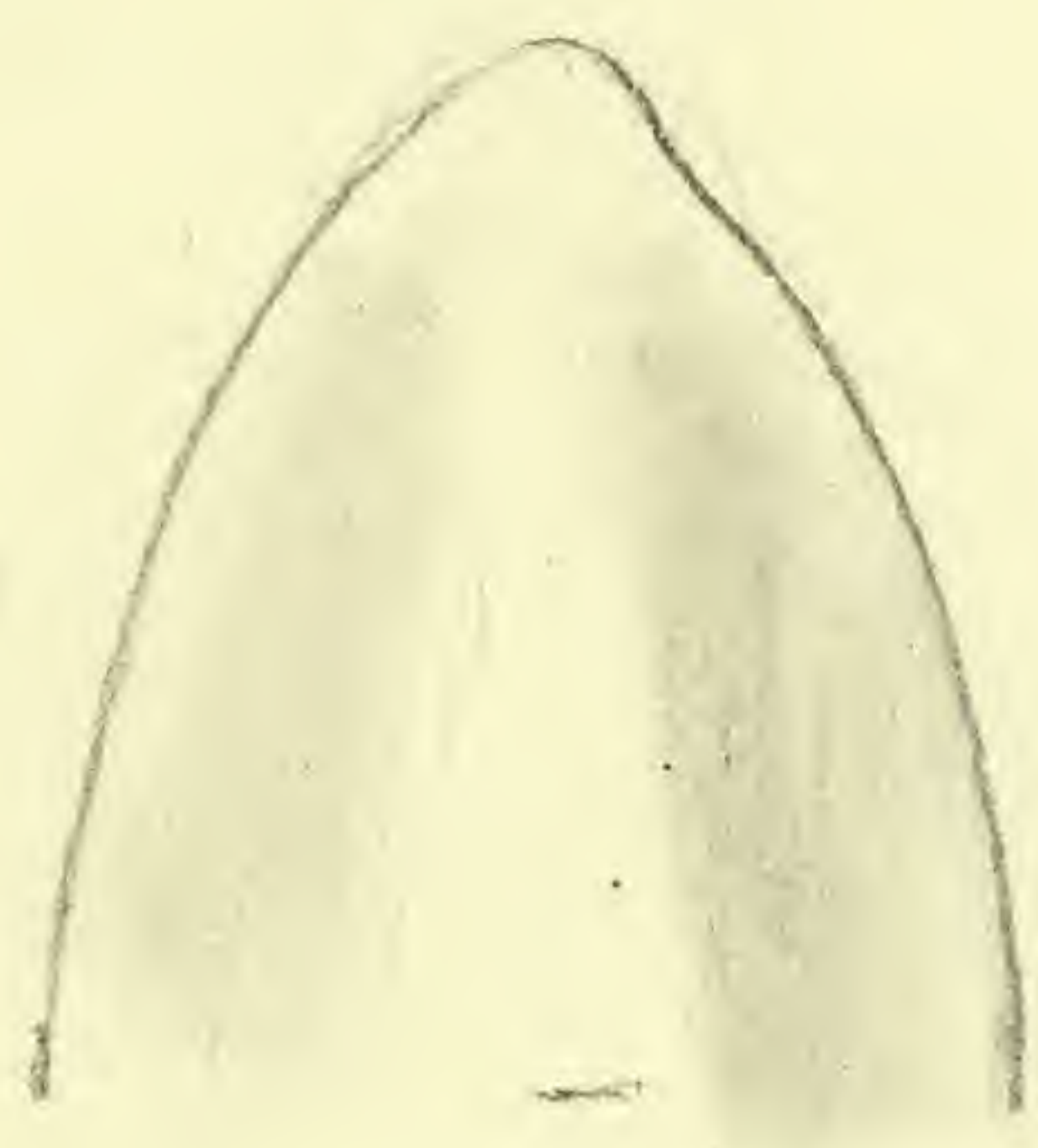


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"*A. amabilis*"

April 12, 1872

Carson Pass, Brewer 2093



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0 1 2 3 4 5 6 7 8 9 10

cm

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Leitch & Corlies

DRUGGISTS

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Corner Fifth
and Market
Streets

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0 1 2 3 4 5 6 7 8 9 10

cm

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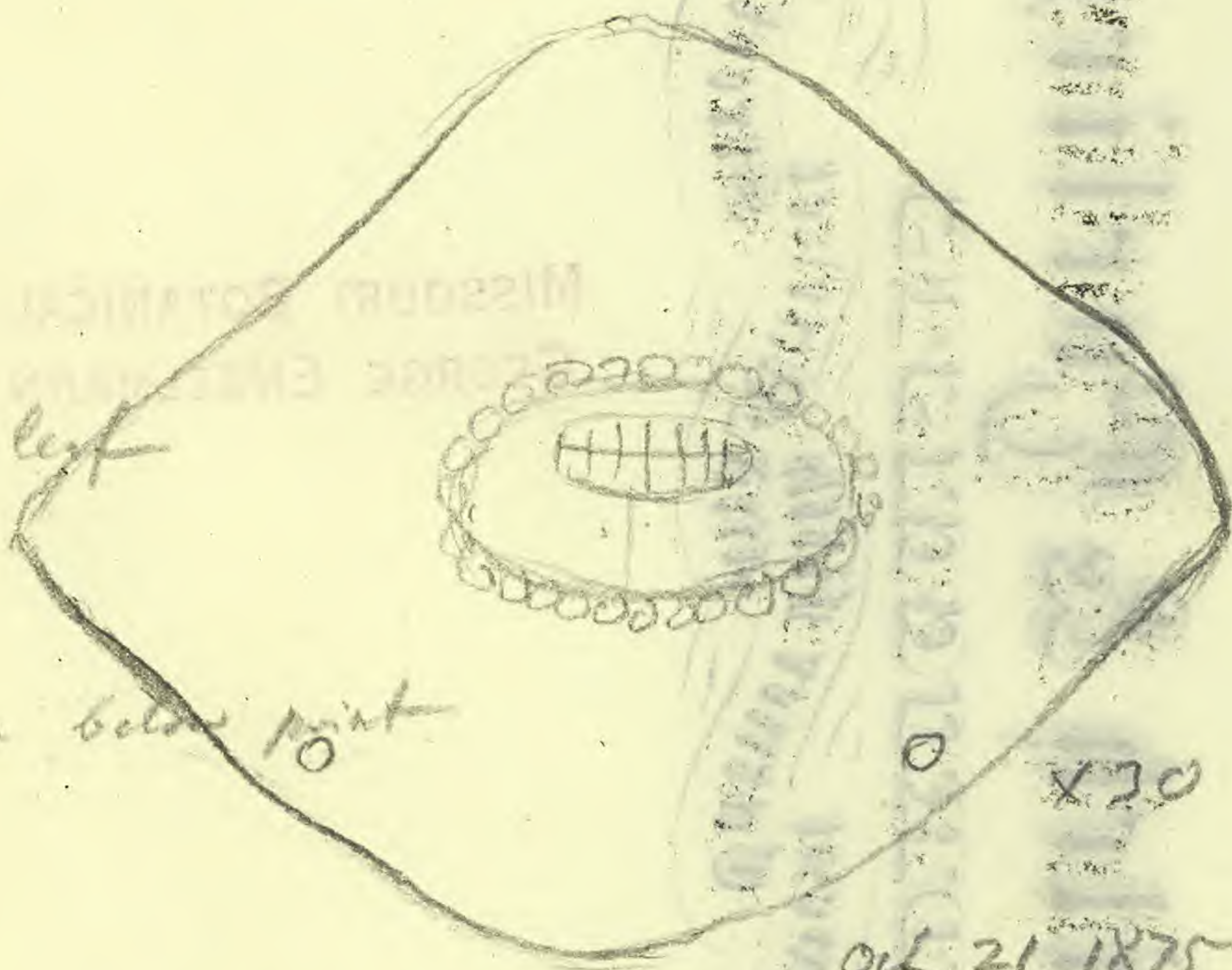
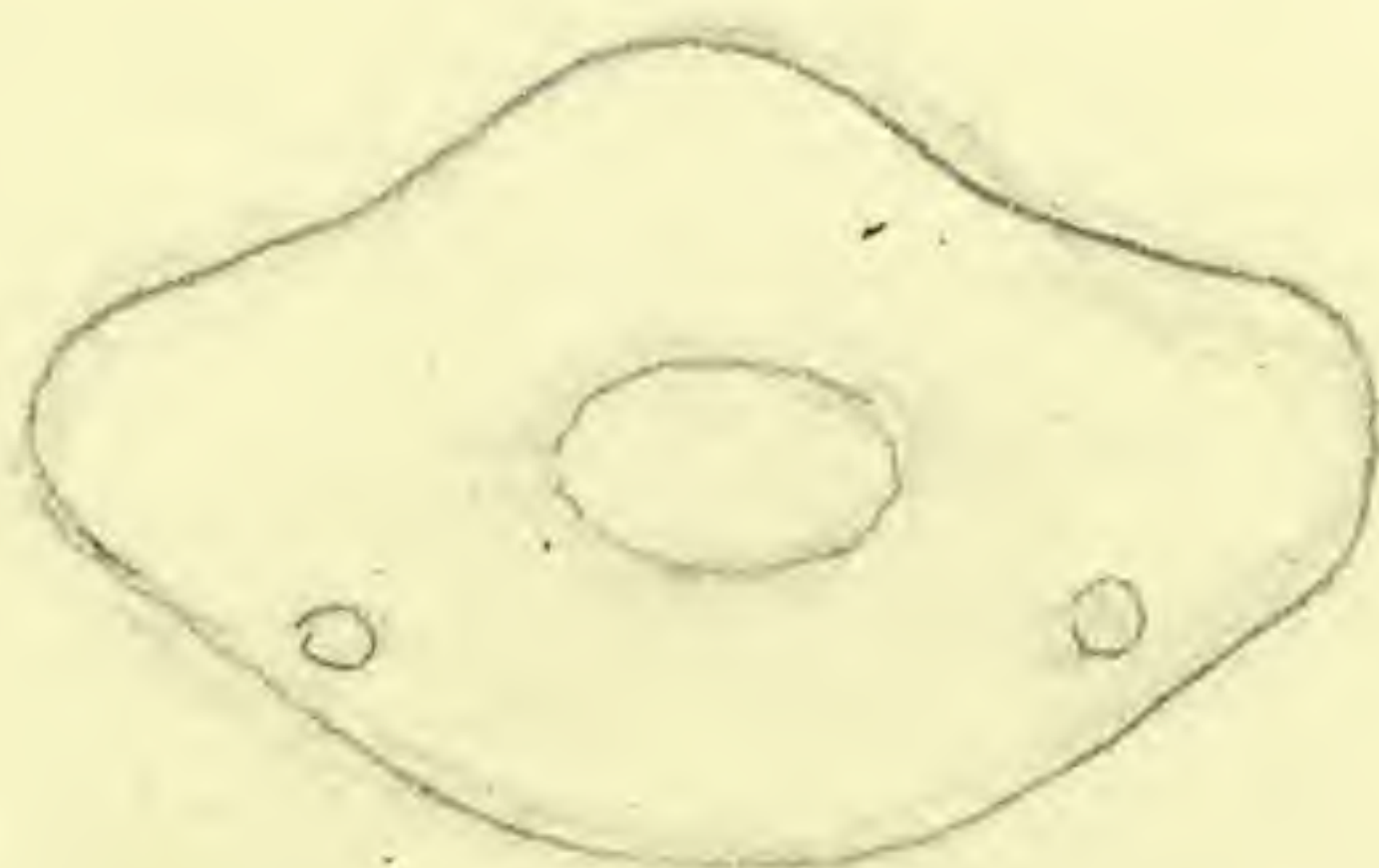
"*A. amabilis*"

April

72

♀ leaves below the cones

Belander, also
Clark's



0 1 2 3 4 5 6 7 8 9 10

cm

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Leitch & Corlies

DRUGGISTS

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Corner Fifth
and Market
Streets

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0 1 2 3 4 5 6 7 8 9 10

cm

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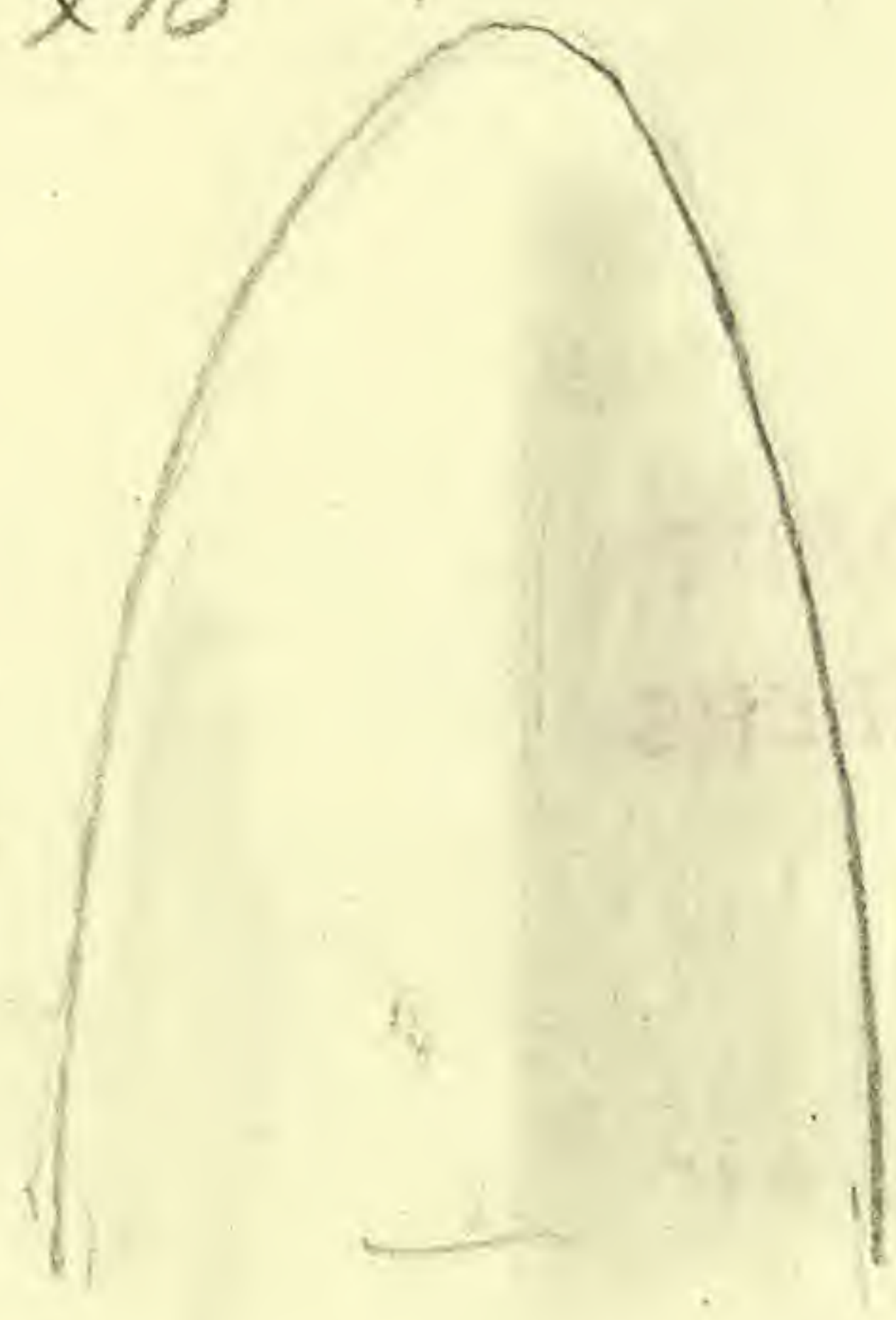
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GARDEN

"*A. umbilicis*"
Polander at Clark's, sterile

April 12 1872



x 10



x 20

Section of leaf
near tip



in middle



near base



Oct 21 1875



0 1 2 3 4 5 6 7 8 9 10

cm

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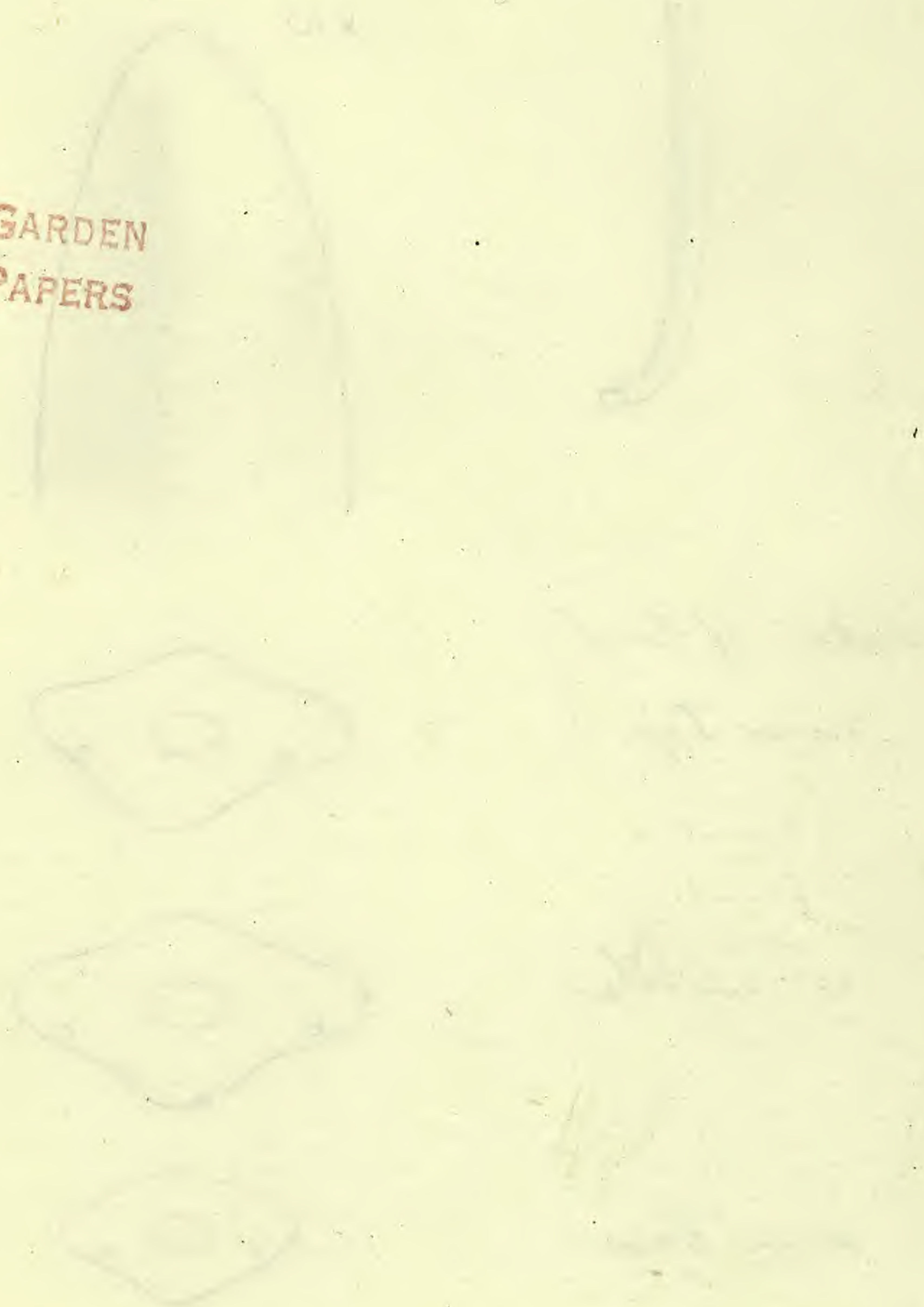
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Streets

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0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

24 Feb

A. magnifica

Simms



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

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0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

6

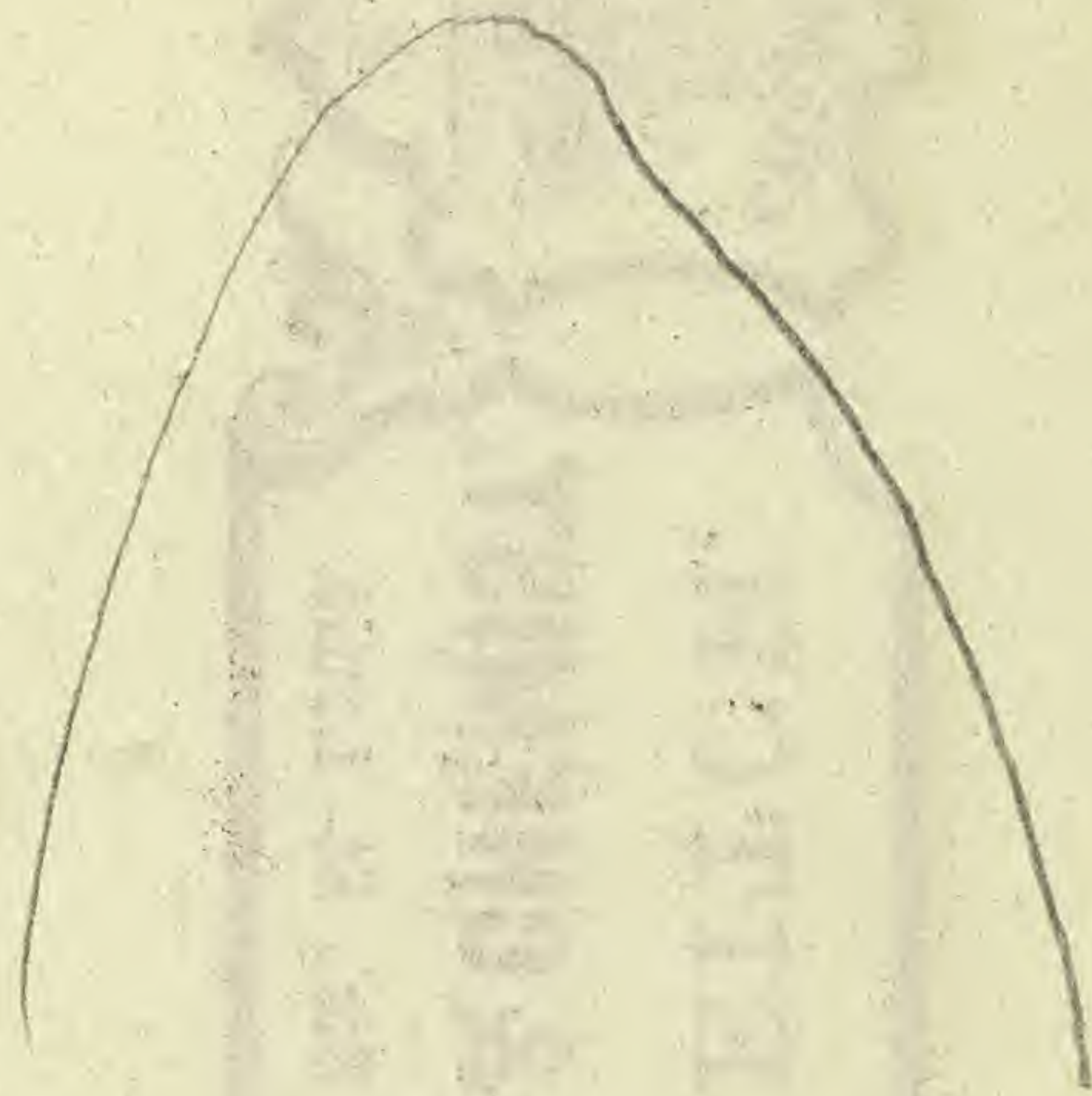
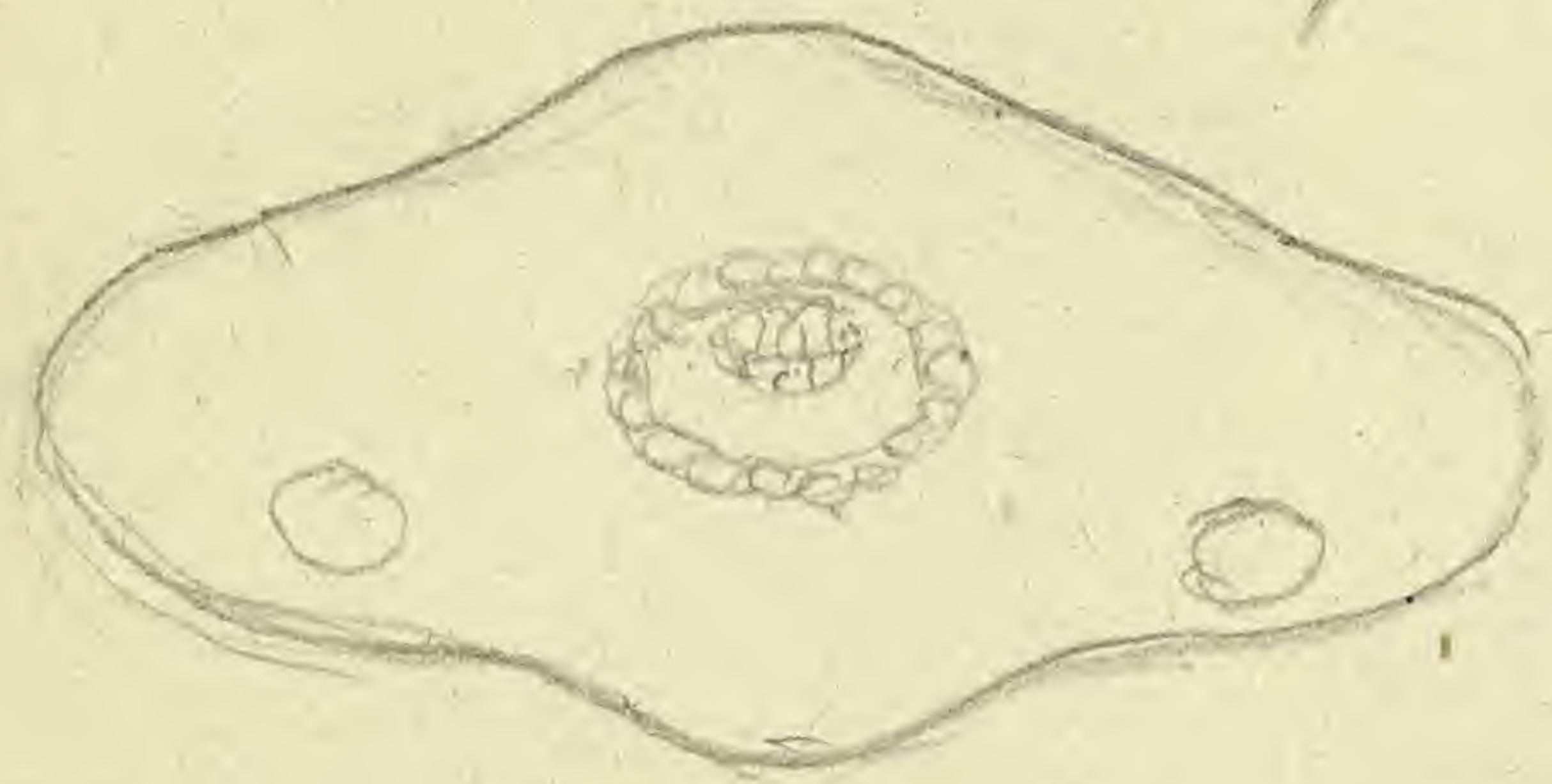
Abies megarhiza

Febr 20 1876

leaf of a vigorous young shoot

Californ. Larrea 1875

x 30



12-14 lines of stomata above

4-5 in each band below

hypoderm cells on all 4 corners, none other



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

12632

CHEMIST



ALEX. LEITCH,
APOTHECARY & CHEMIST,
Cor. 4th and Olive Sts., St. Louis.

ALL THE NEW REMEDIES
CONSTANTLY ON HAND



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GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

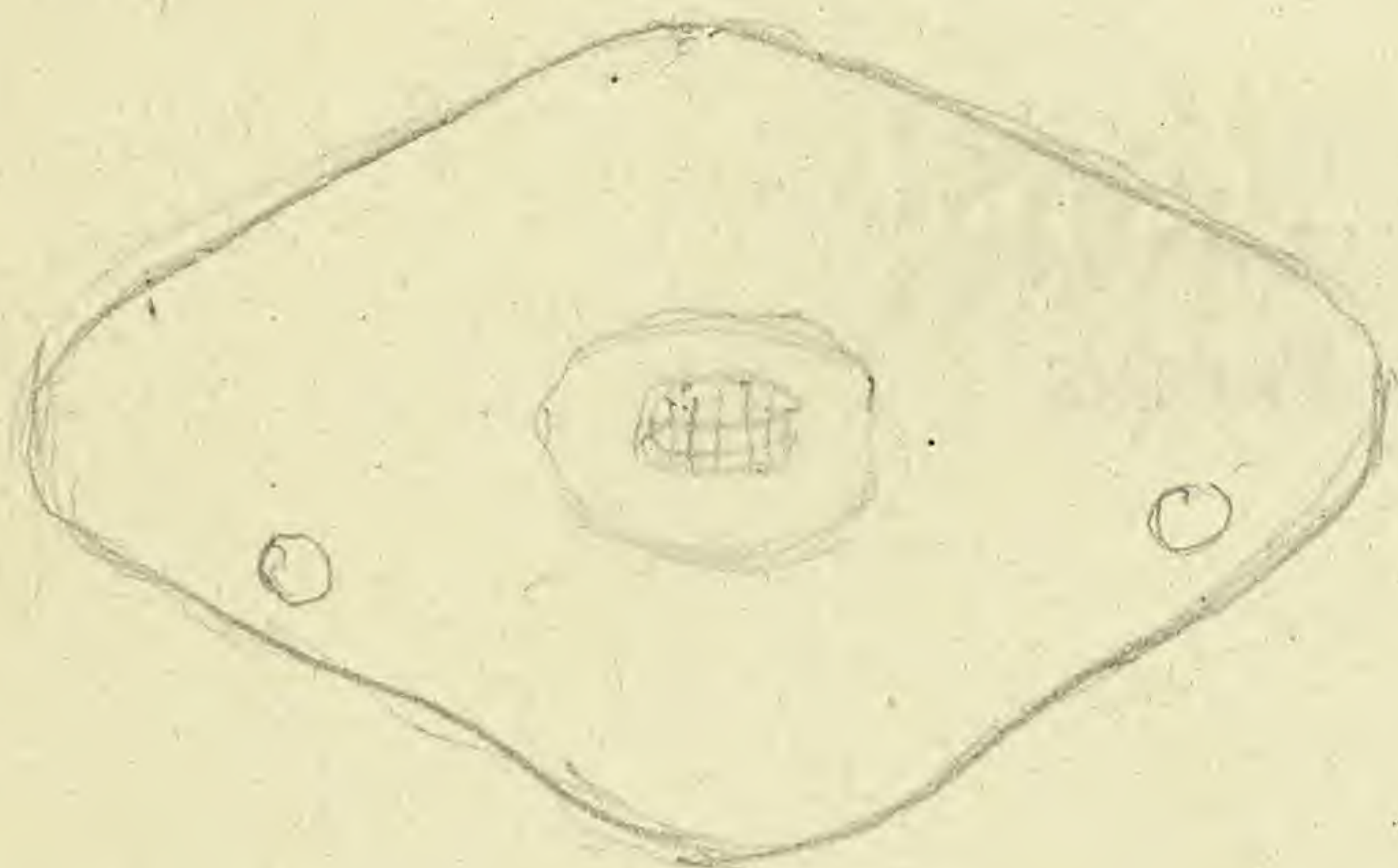
f

Abies magnifica

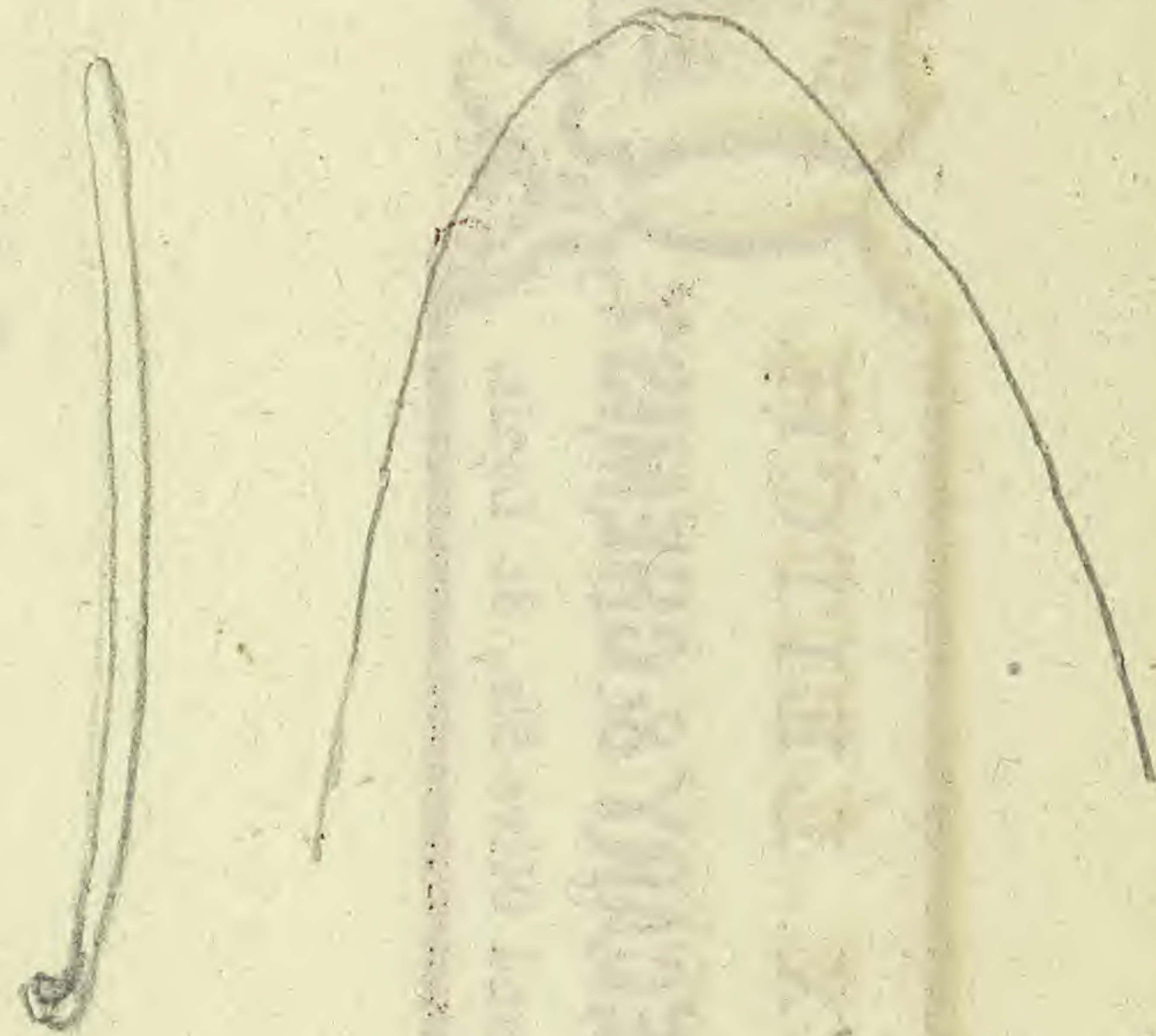
Febr 20 1876

Sierra Valley, Lemmon 1875

leaves of lower limbs



12-15 lines of stomata above
4-5 in each band below



leaves 1-1 1/2 inches
3/4 - 1 cm wide



0 1 2 3 4 5 6 7 8 9 10

cm

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CONSTANTLY ON HAND

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0 1 2 3 4 5 6 7 8 9 10

cm

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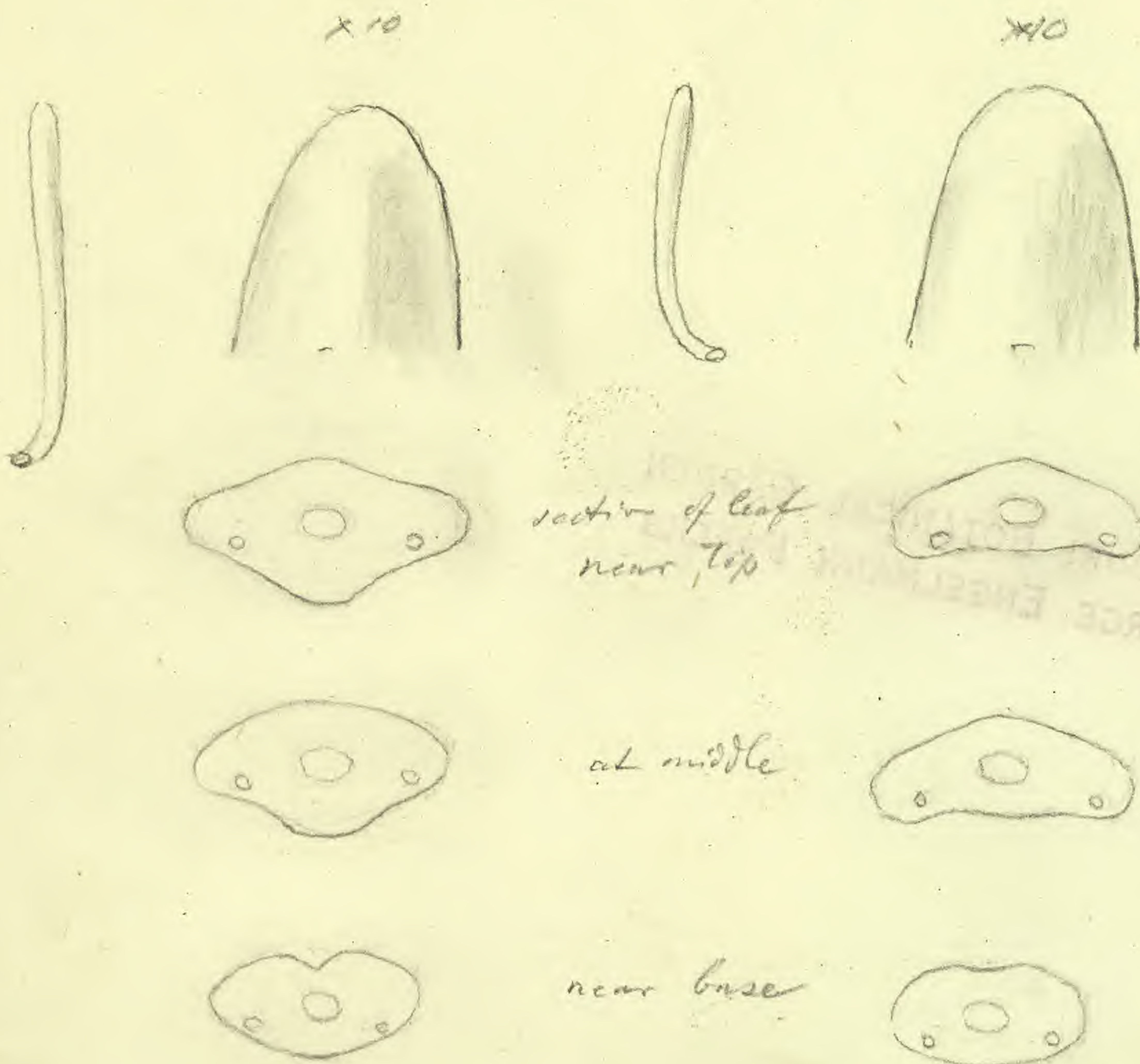
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A. nobilis

April 11, 1872

Shasta, Jeffrey

J. W. Reed



section of leaf
near tip

at middle

near base

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 GEORGE ENGELMANN PAPERS
 HERBARIUM



0 1 2 3 4 5 6 7 8 9 10

cm

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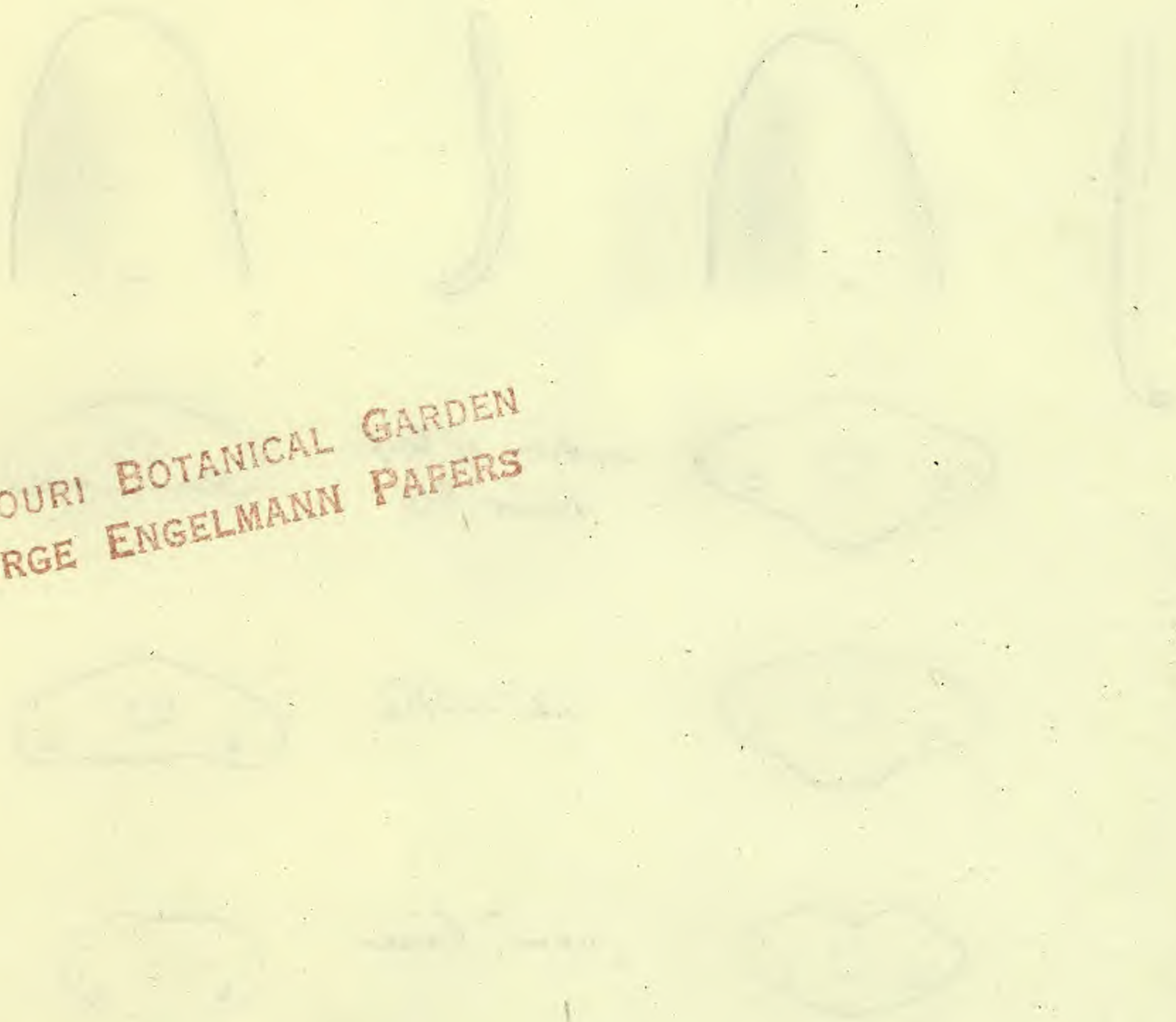
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Leitch & Corlies

DRUGGISTS

South-west
Corner Fifth
and Market
Streets

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GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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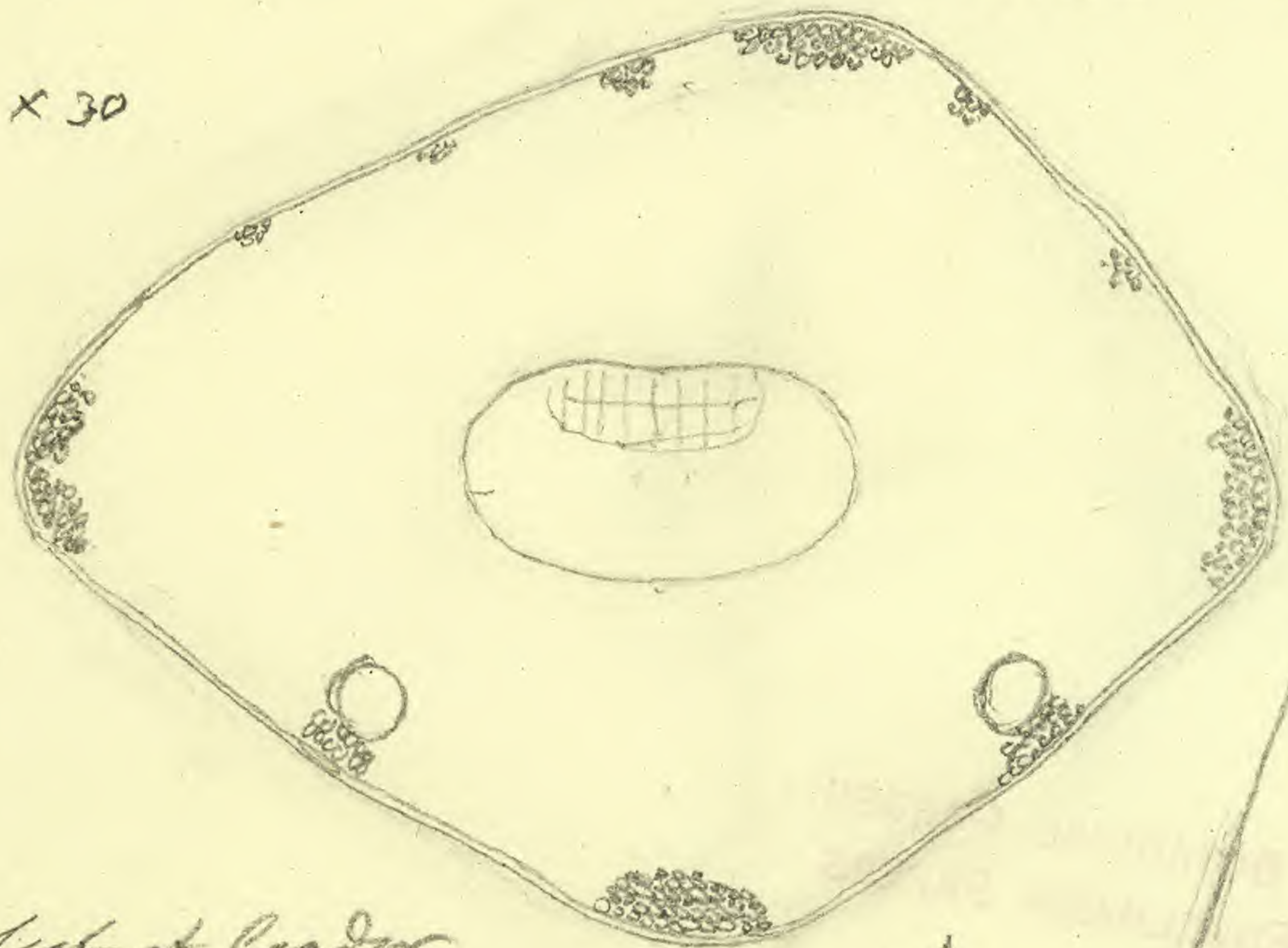
Alnus magnifica, *brutosa*
Shasta

Aug. 1880

March 30

1881

x 30



Leaf of leader
of an old tree



Tip x 30

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GEORGE ENGELMANN PAPERS
MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS
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GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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Wirth & Carlisle

DRUGGISTS

South-west
Corner Fifth
and Market
Streets

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0 1 2 3 4 5 6 7 8 9 10

cm

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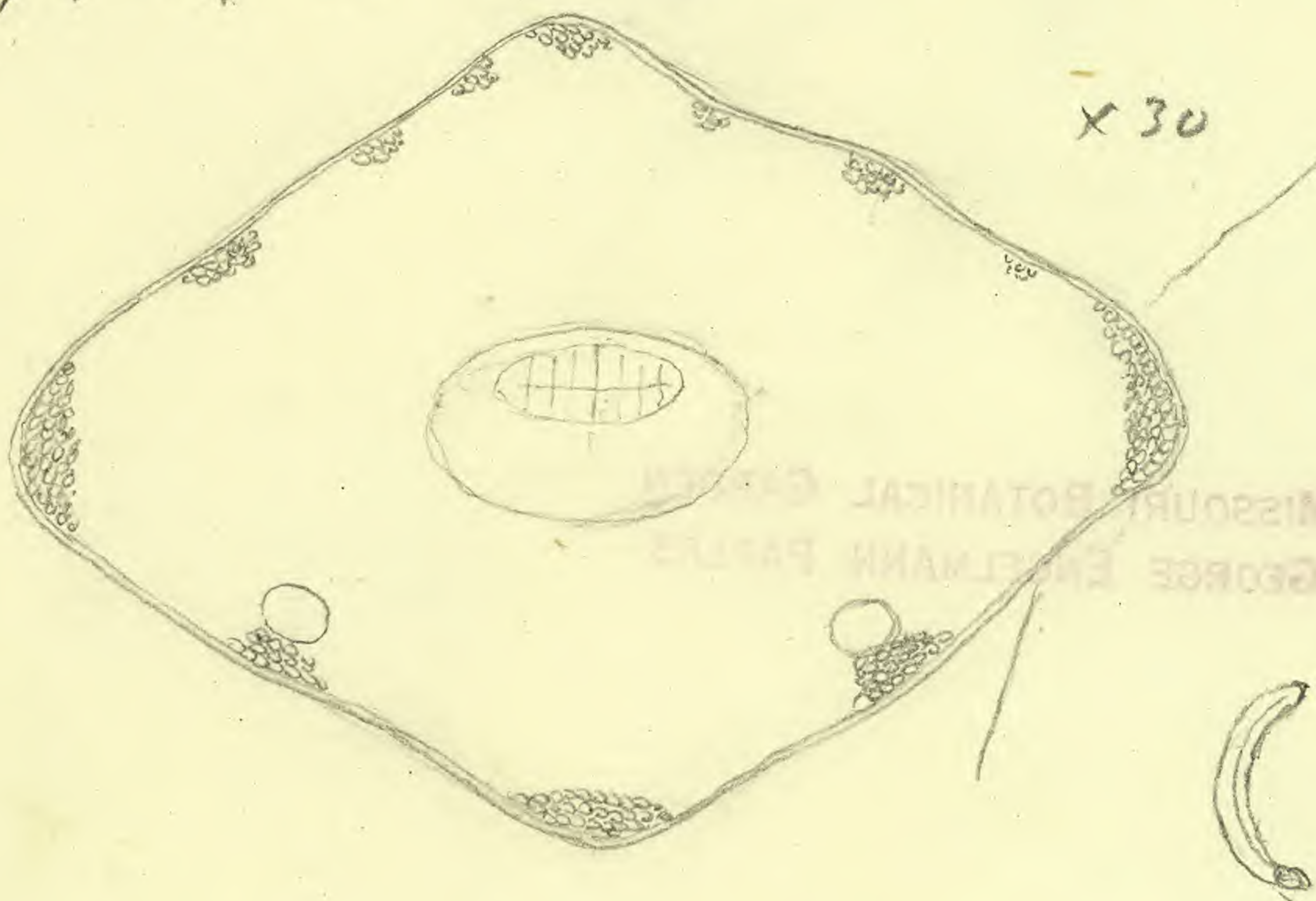
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Abies magnifica bracteosa

March 31 1881

Shasta Aug 1880

Leaf of a fertile branch



Tip of leaf



0

1

2

3

4

5

6

7

8

9

10

cm

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MISSOURI
BOTANICAL
GARDEN

12636

Rich & Corlies

DRUGGISTS

South-west
Corner Fifth
and Market
Streets

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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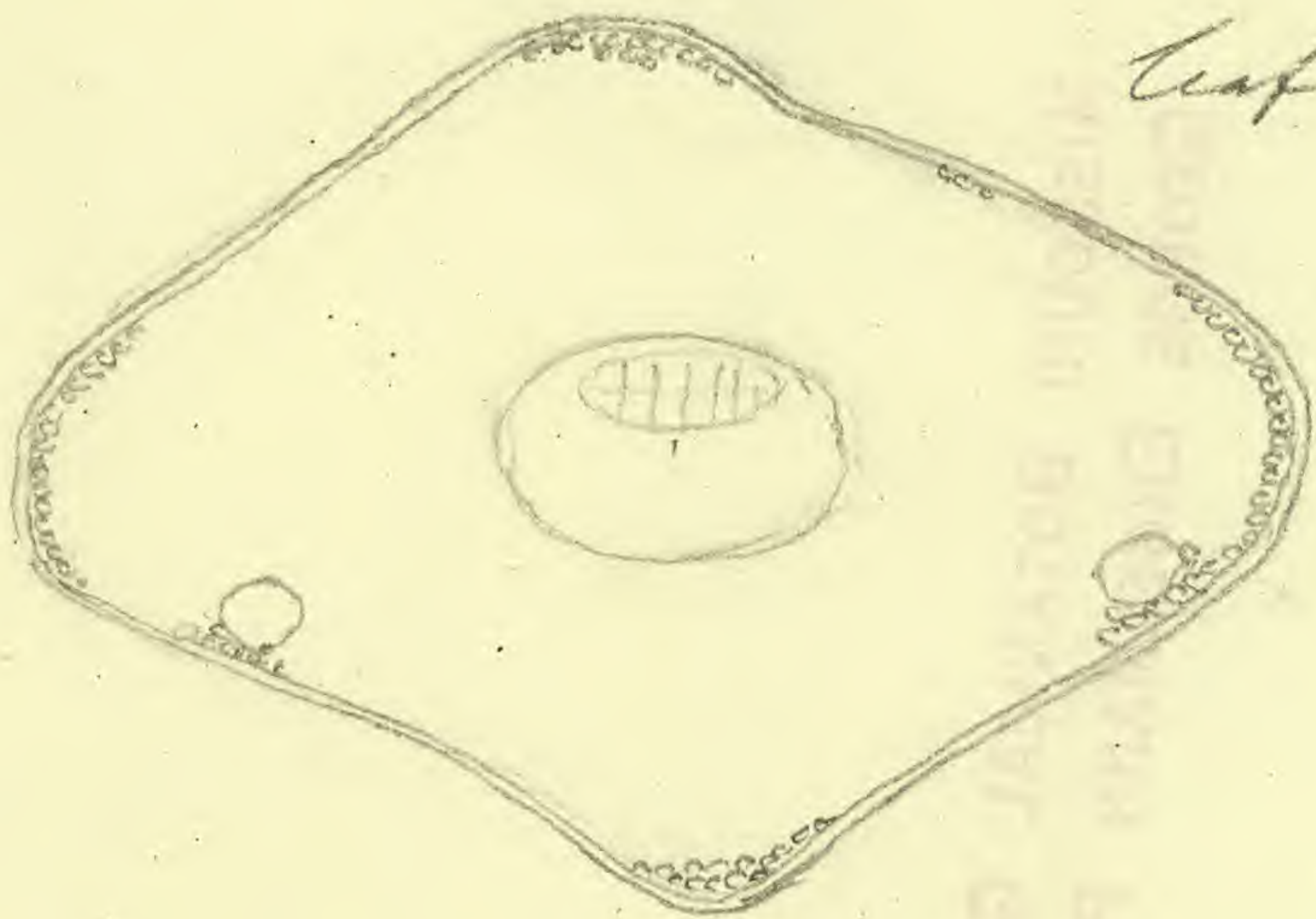
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Abies magnifica var *bracteata*

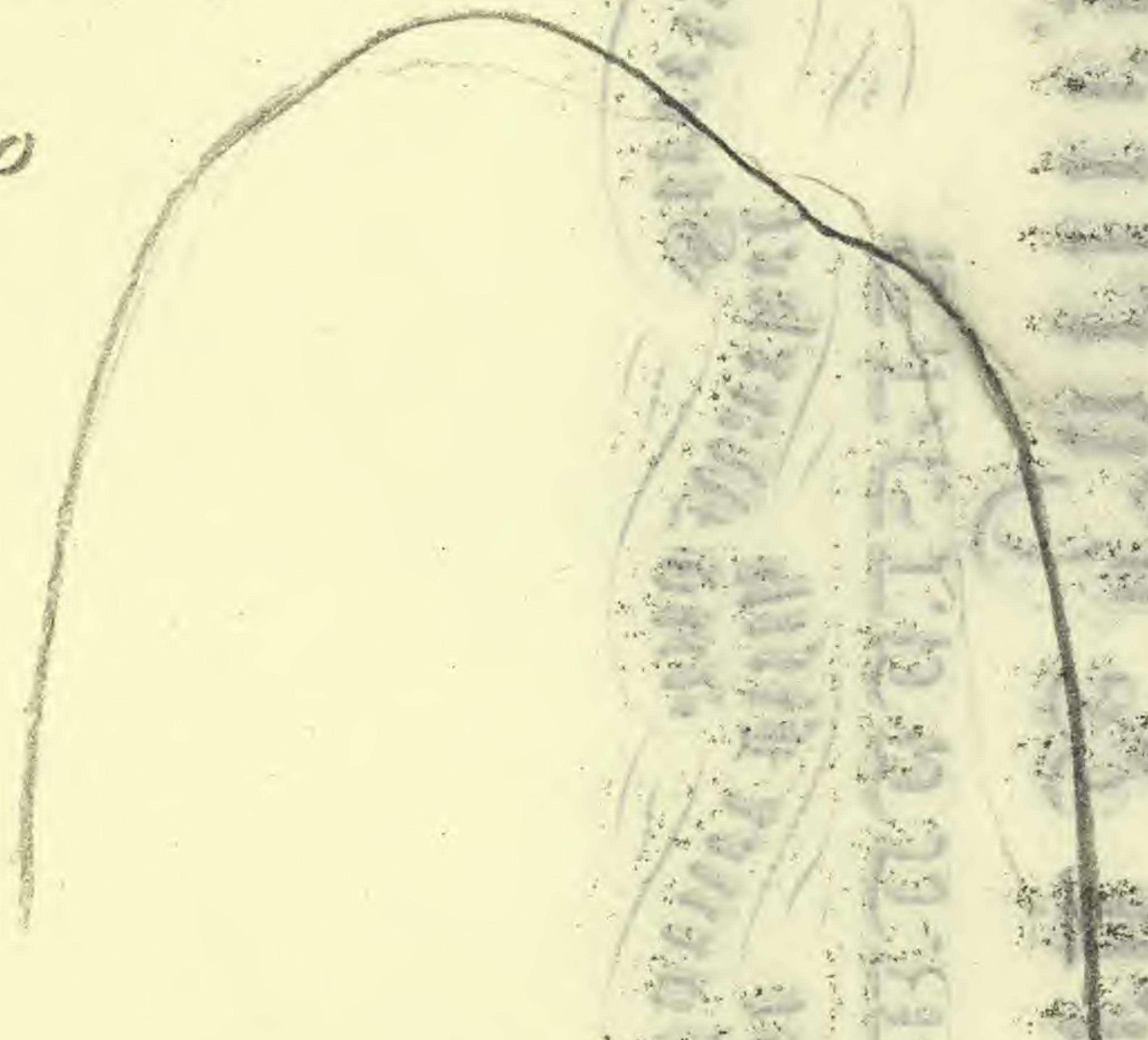
March 31 1881

Shasta Aug 1880

Leaf of a lower, lateral branch



x 30



0 1 2 3 4 5 6 7 8 9 10

cm

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Wirth & Corlies

DRUGGISTS

South-west Corner Fifth and Street

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GEORGE ENGELMANN PAPERS

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0 1 2 3 4 5 6 7 8 9 10

cm

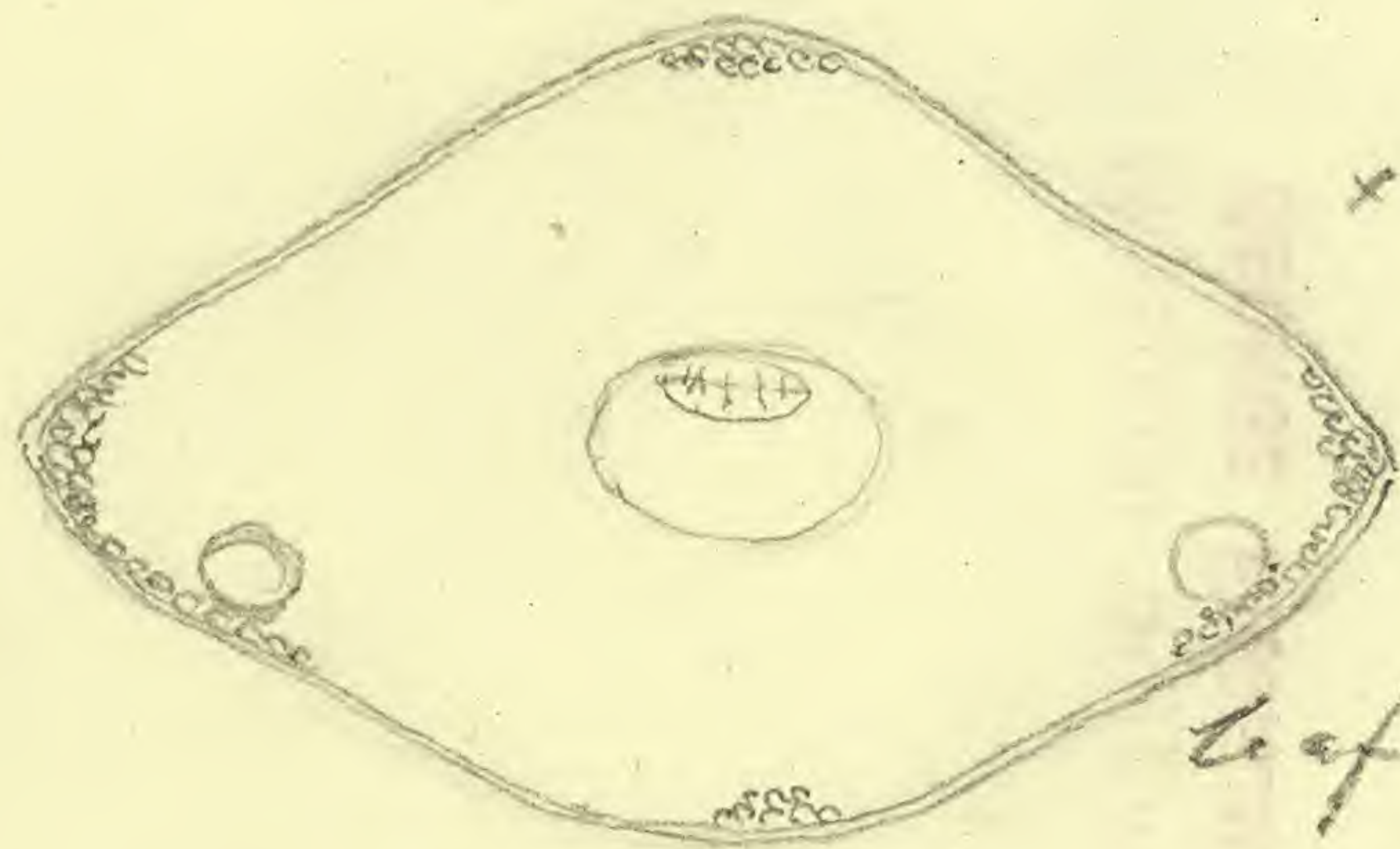
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Abies magnifica var *crantiosa*
Shasta Aug 1880

March 31 1881



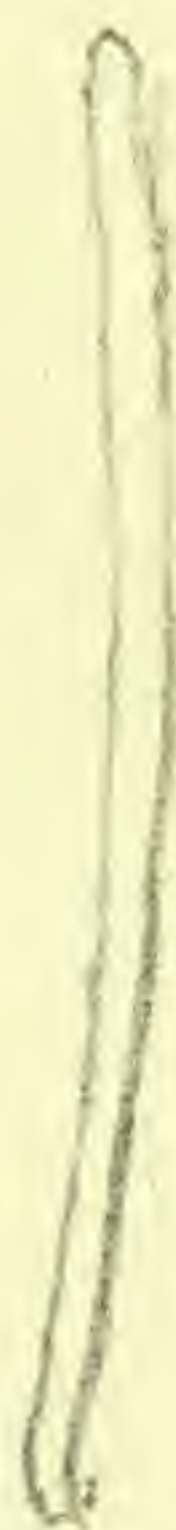
x 30



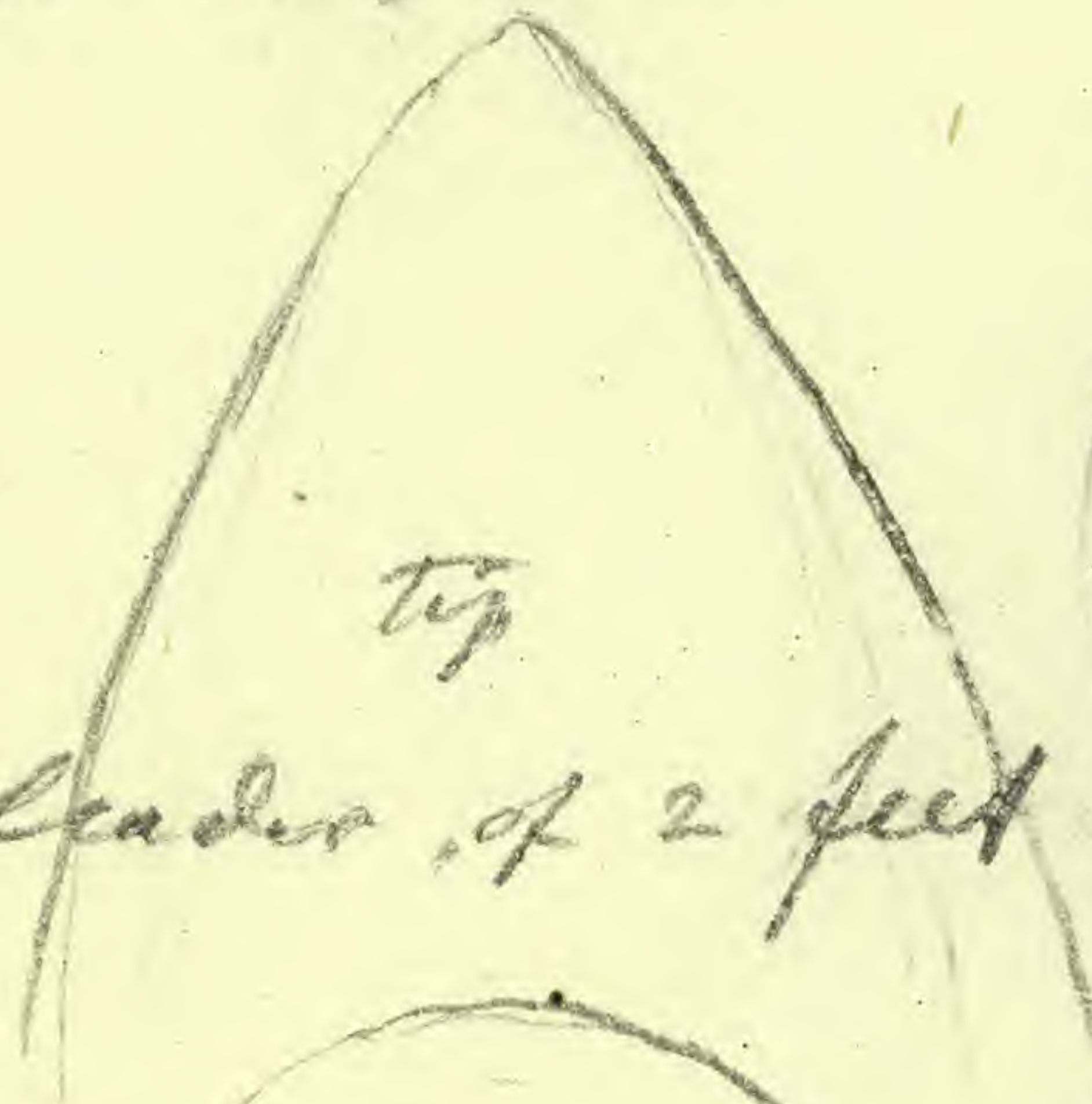
leaf of a leader of 2 feet high



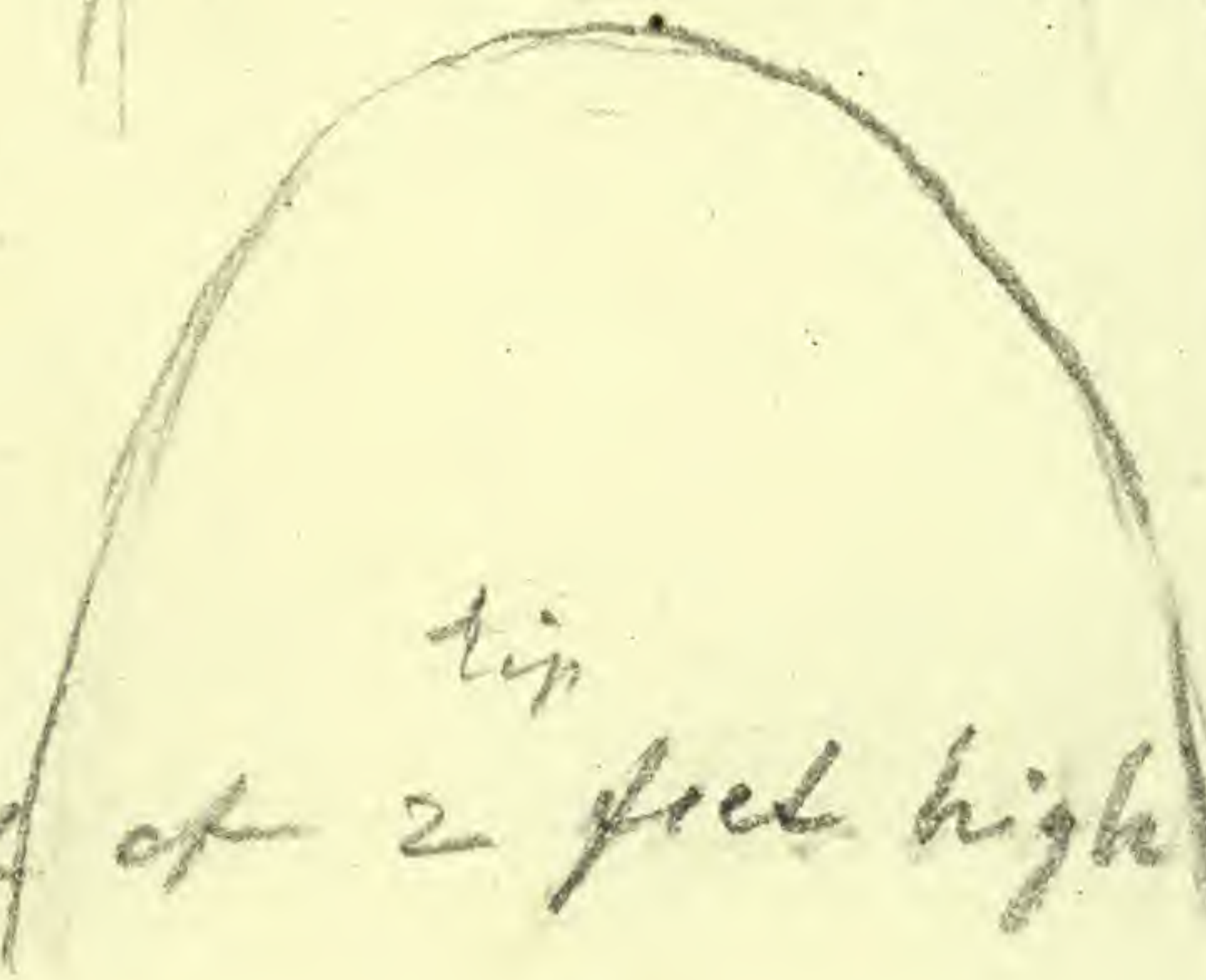
lateral



leaf of 2 feet high



tip



tip



0 1 2 3 4 5 6 7 8 9 10

cm

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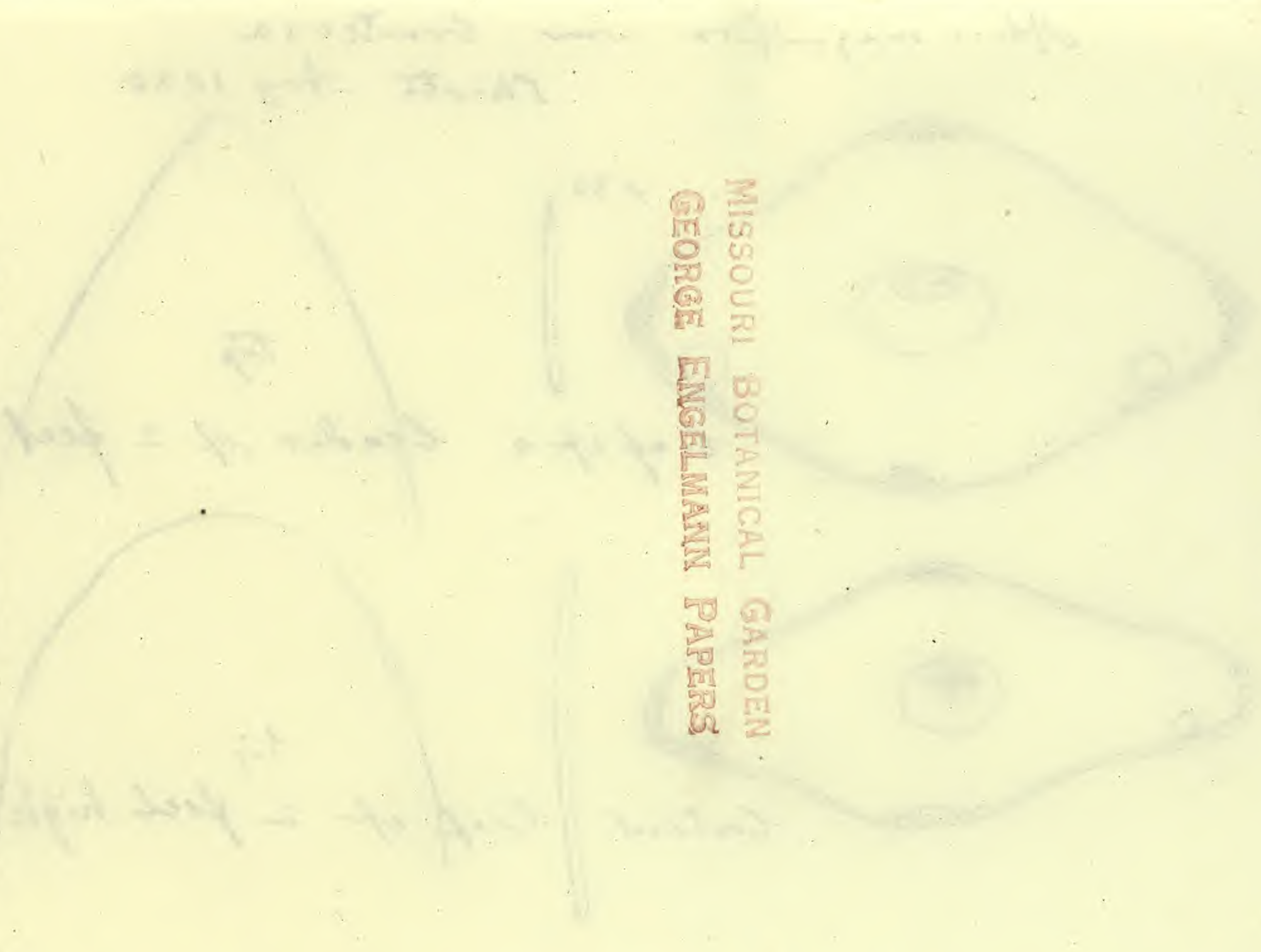
MISSOURI
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GARDEN

1881 12 June

Leitch & Corlies

DRUGGISTS

South-west
Corner
Fifth
and
Market
Streets



MISSOURI BOTANICAL GARDEN
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12638



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
BOTANICAL
GARDEN

5 Feb

A religiosa



0 1 2 3 4 5 6 7 8 9 10

cm

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GARDEN

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0 1 2 3 4 5 6 7 8 9 10

cm

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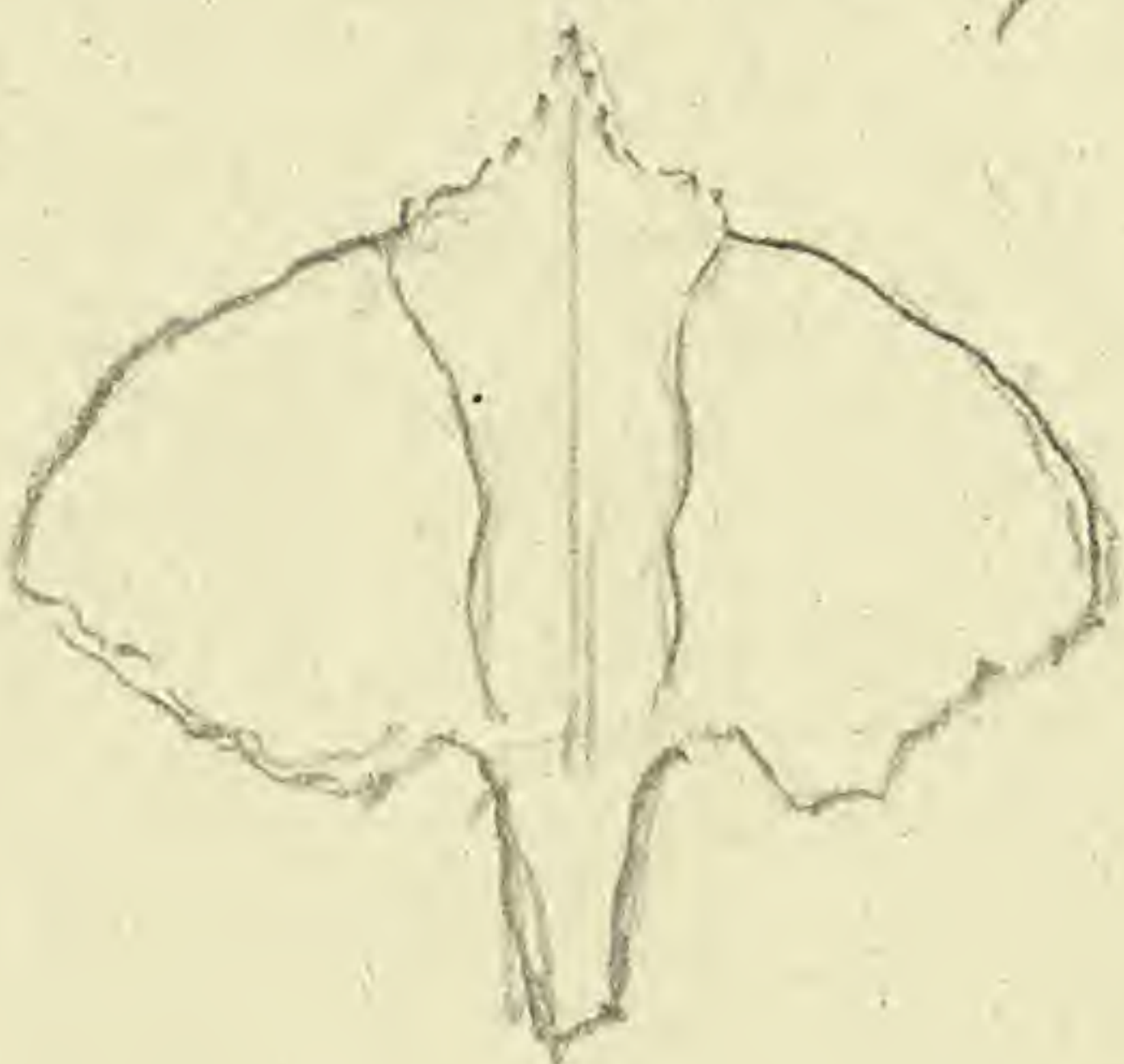
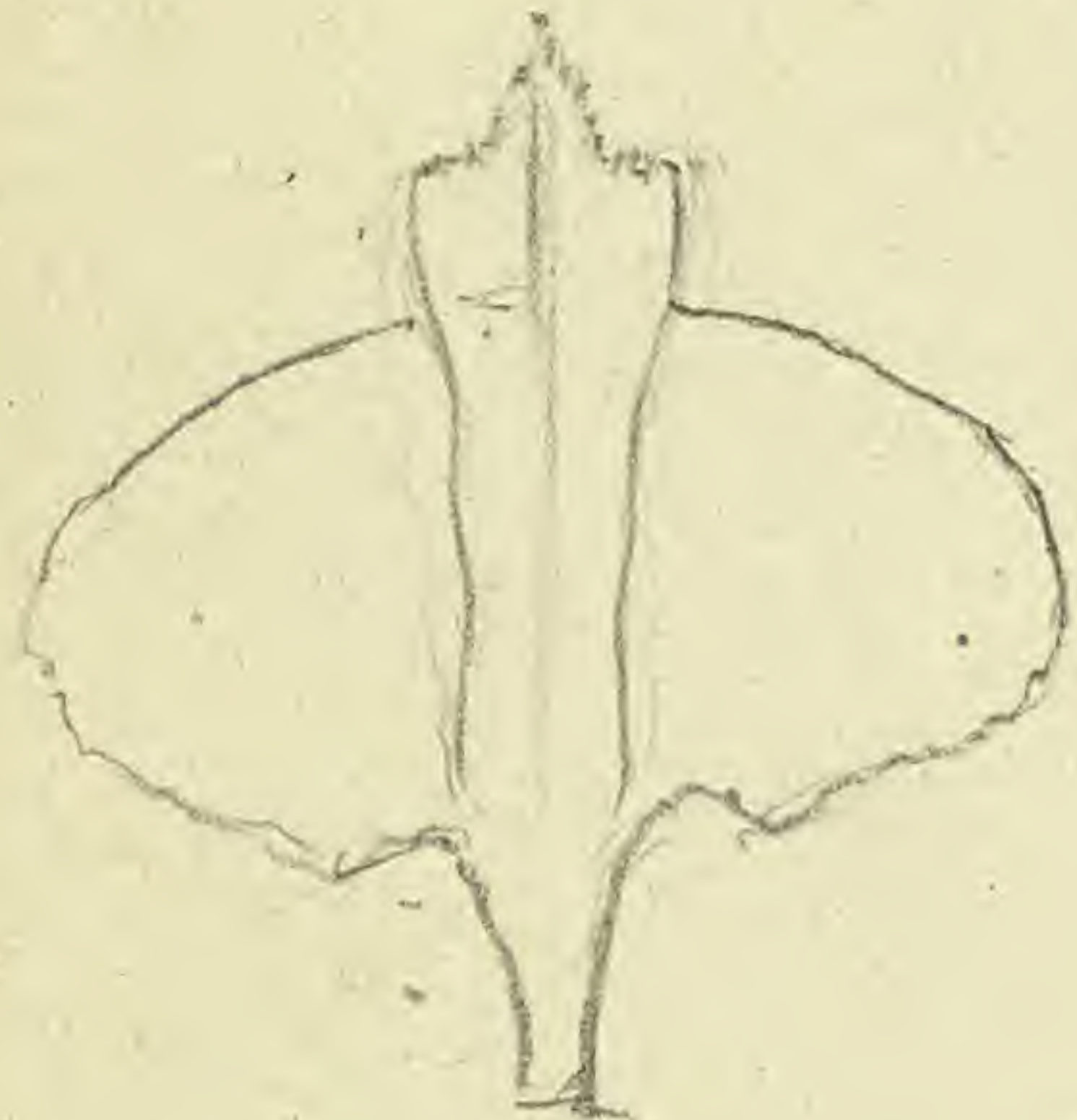


MISSOURI
BOTANICAL
GARDEN

Abies religiosa

Sept 13 1890

Mexico, Ehrenberg - Hb Berlin



24-26 x 13:14 ^{max}

width: height = 4 : 2
3 1/4 : 2



0 1 2 3 4 5 6 7 8 9 10

cm

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0 1 2 3 4 5 6 7 8 9 10

cm

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11221

A. religiosa

Oct 5 1875

Chroung 655

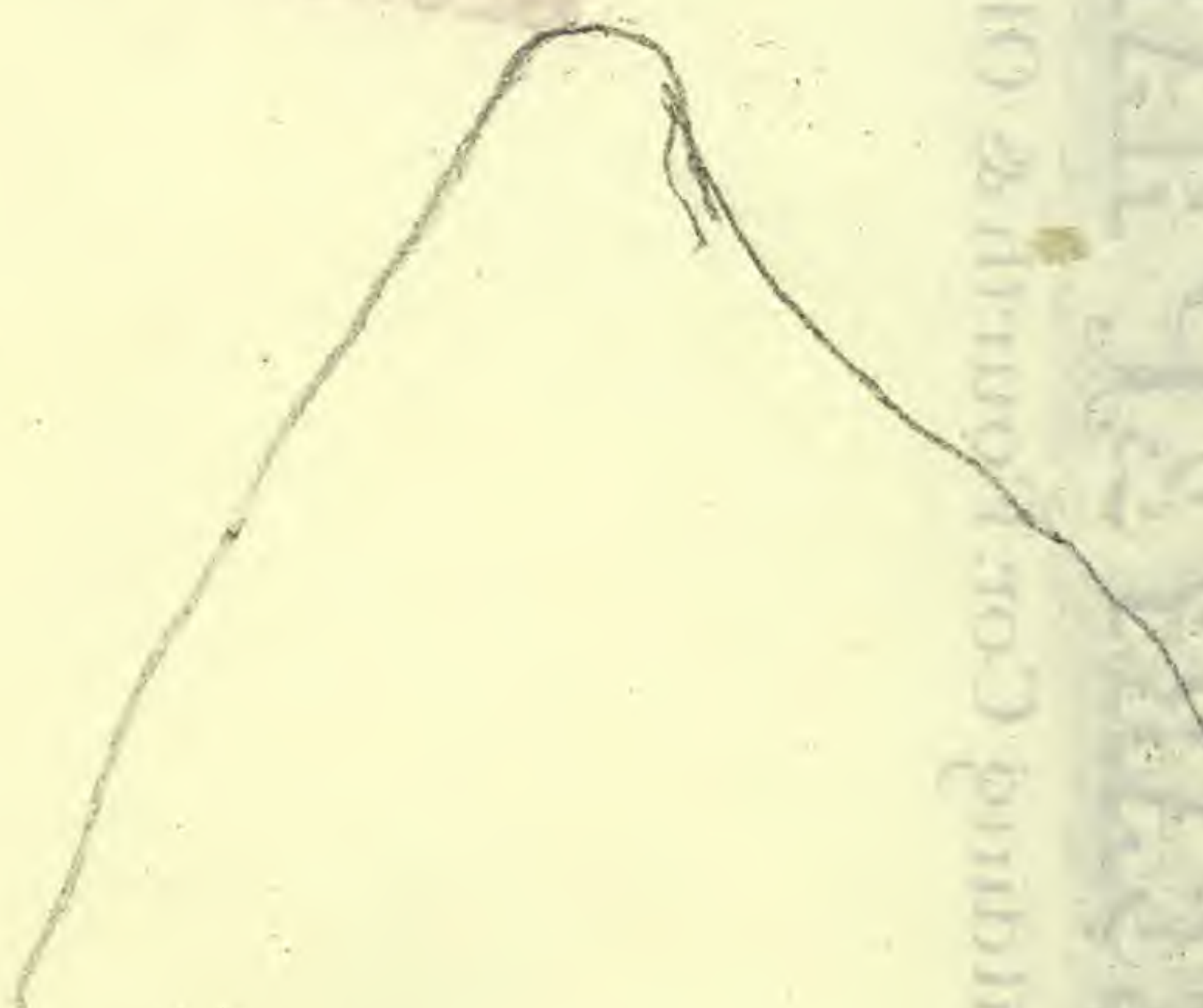
Hb. Berlin

no stomata



MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS
x30

no stomata



MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS
x30



0 1 2 3 4 5 6 7 8 9 10

cm

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0 1 2 3 4 5 6 7 8 9 10

cm

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Abies religiosa

20 June 1876

"from Veracruz"

Dr Vasey mis

cone $4\frac{3}{4}$ inch long, 2 wide

scales in $8/21$ order, 15-16 lines wide

9-6 l. high without steps

35 mm wide

24 mm high



MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS
PETER RAVEN & COLLEGE



0 1 2 3 4 5 6 7 8 9 10

cm

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Leitch & Corlies

DRUGGISTS

**South West
Corner Fifth
and Market
Streets.**

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cm

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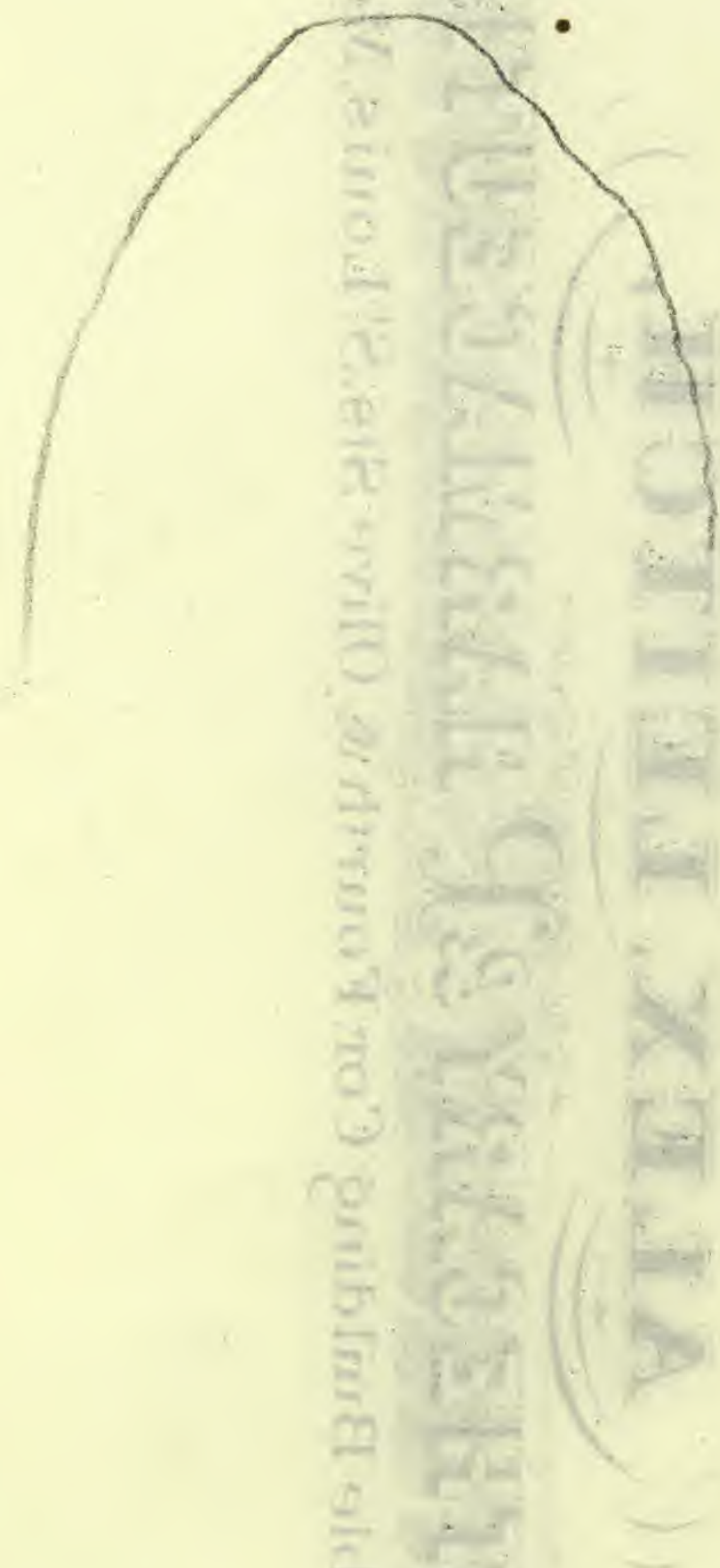
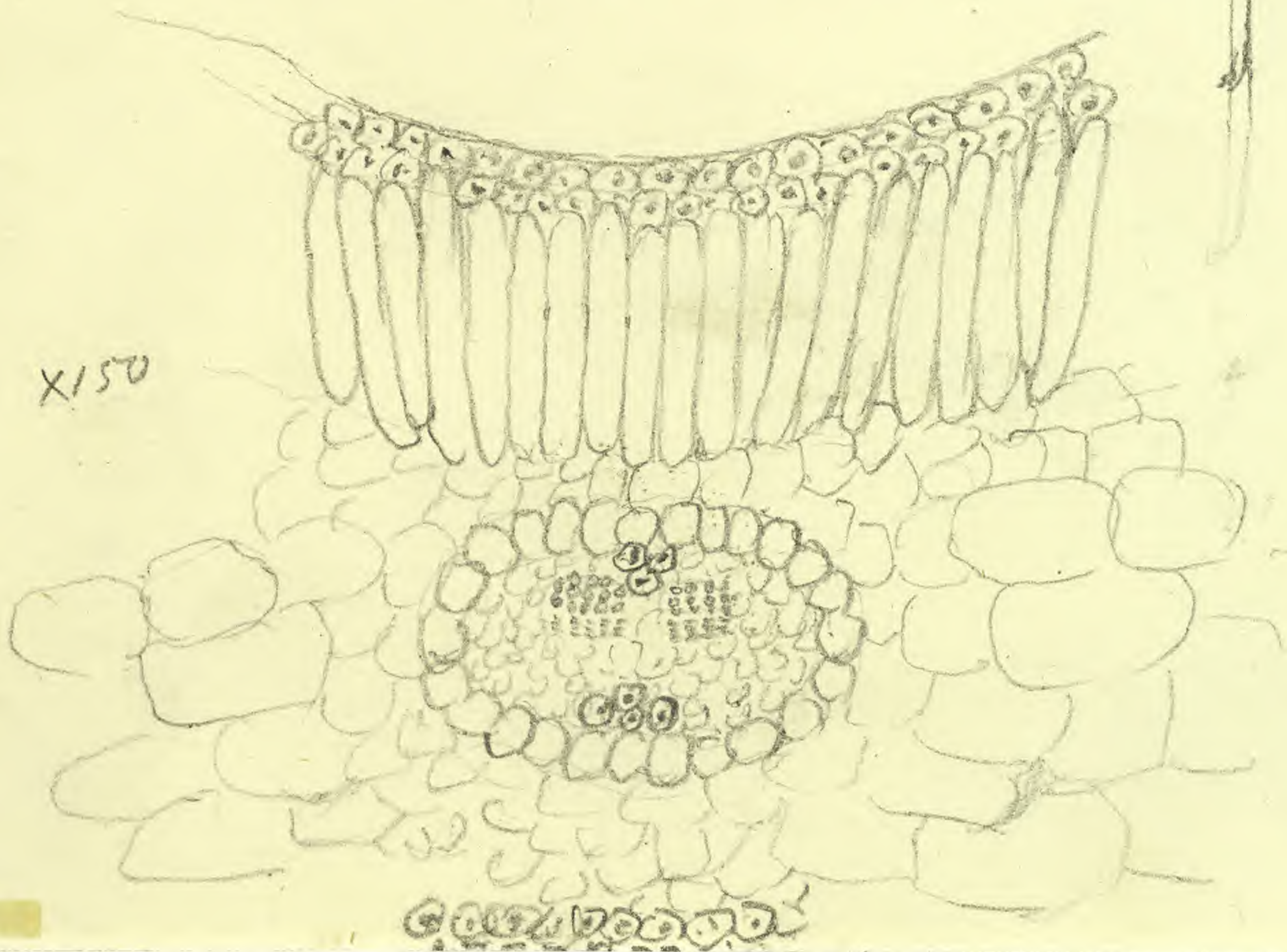
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Alnus reticulosa

Oct 6 1875

Mexico, Verde 18 Hb. Berlin

x 30



0 1 2 3 4 5 6 7 8 9 10

cm

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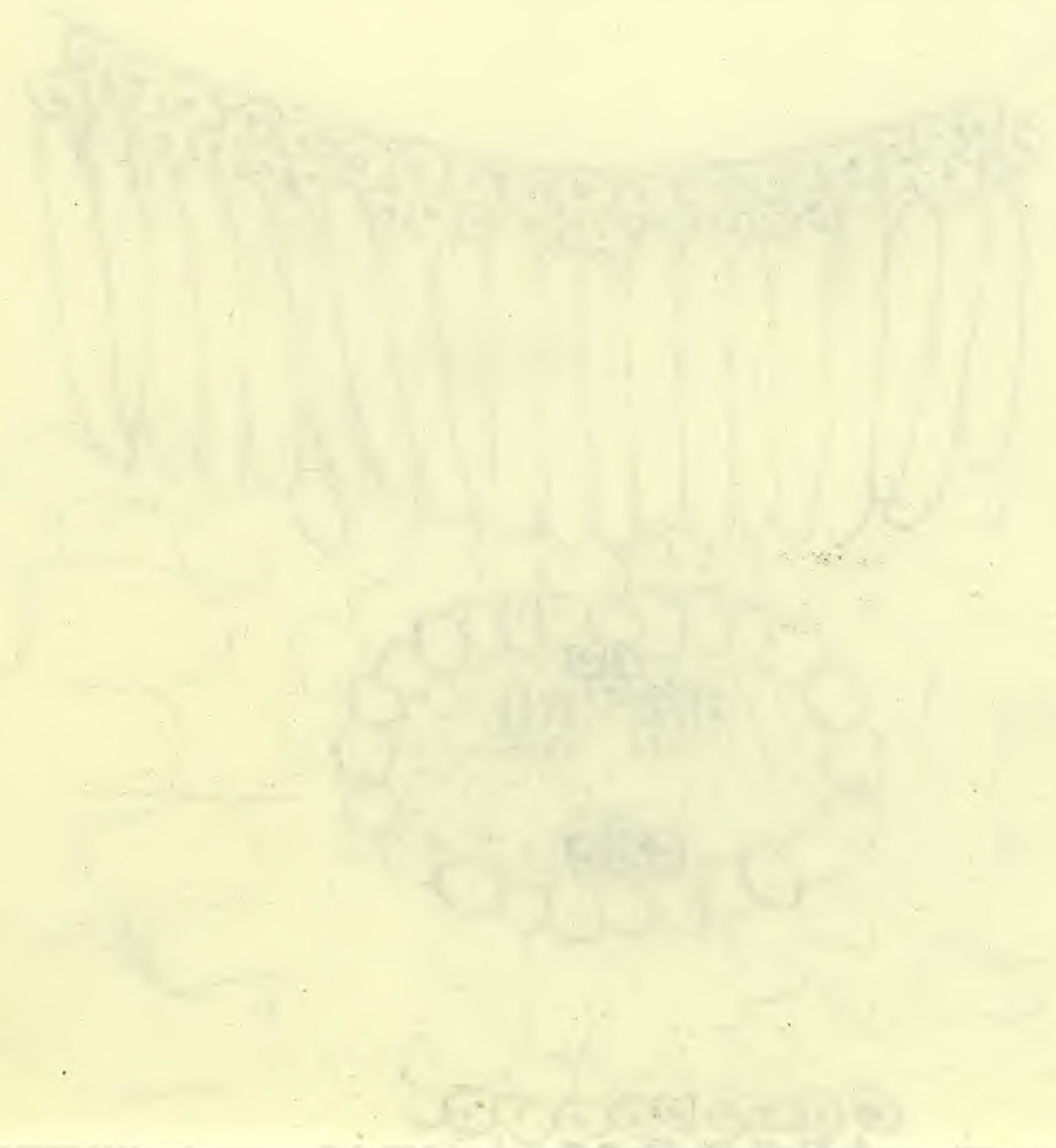
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cm

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A. religiosa

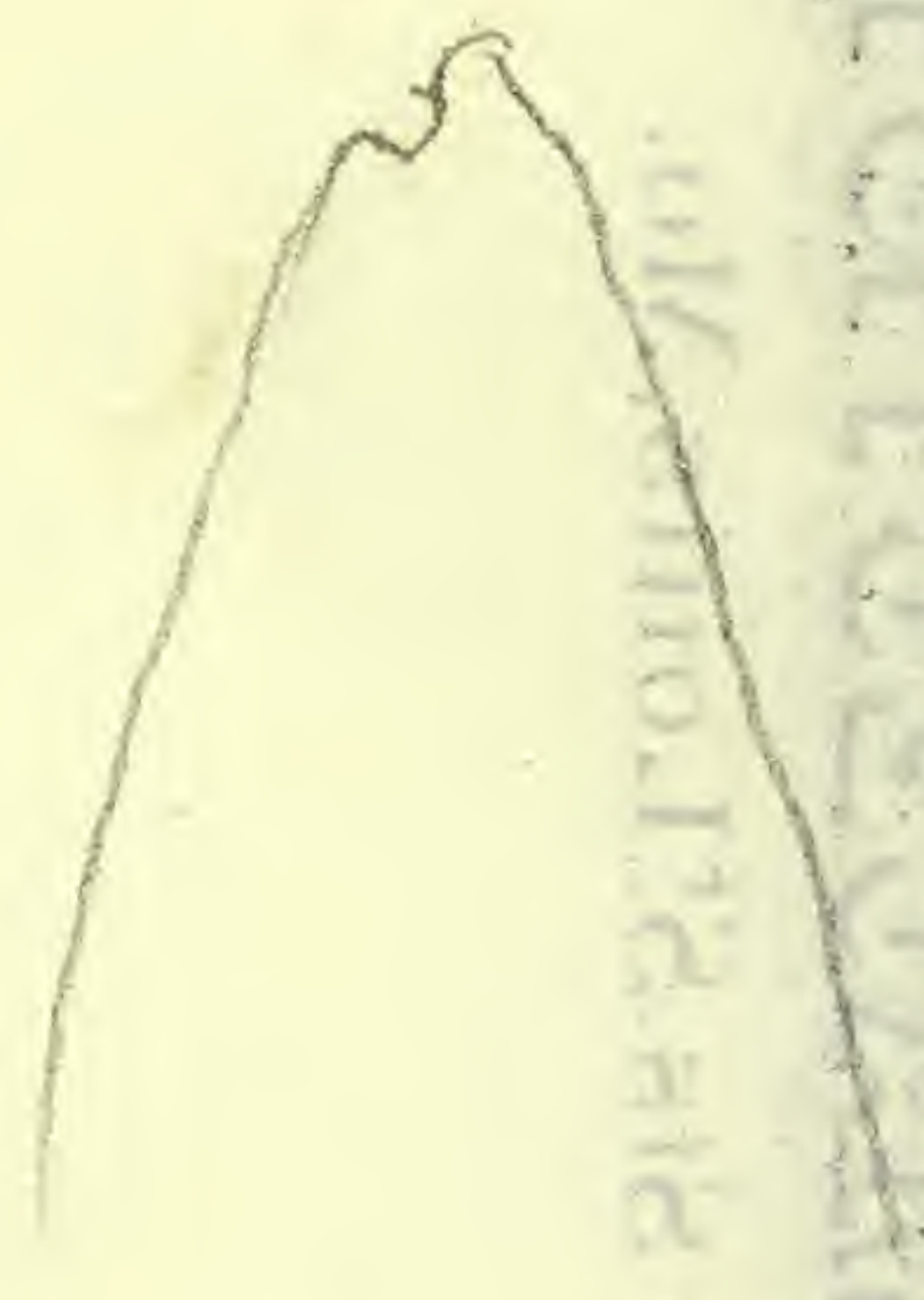
Oct 5 1875

Dr. Gregg 663

no stamens



x 30

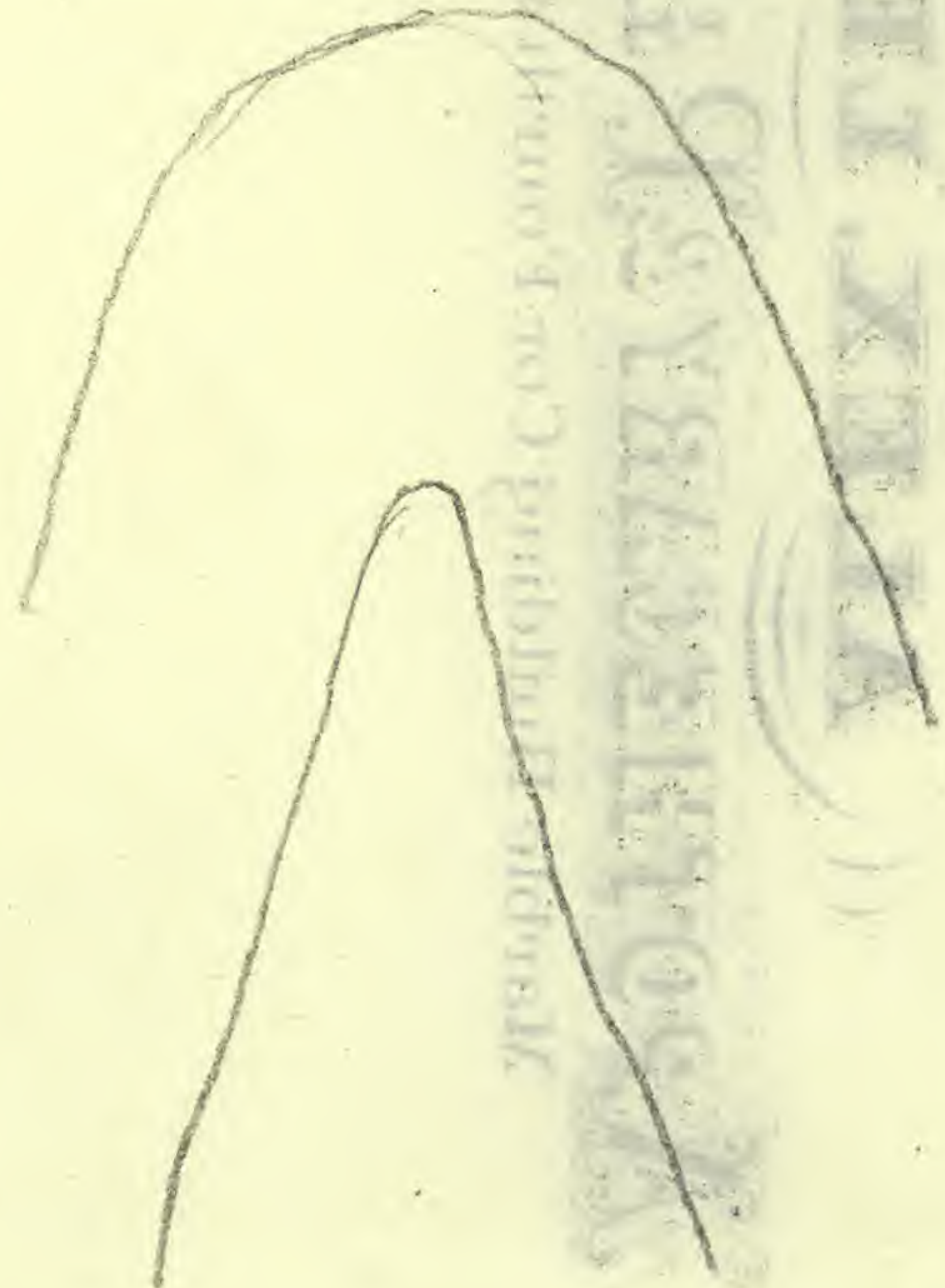


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GEORGE ENGELMANN PAPERS

no stem



Dr. Gregg 689



no stem



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GEORGE ENGELMANN PAPERS
W. J. F. WELCH



0 1 2 3 4 5 6 7 8 9 10

cm

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cm

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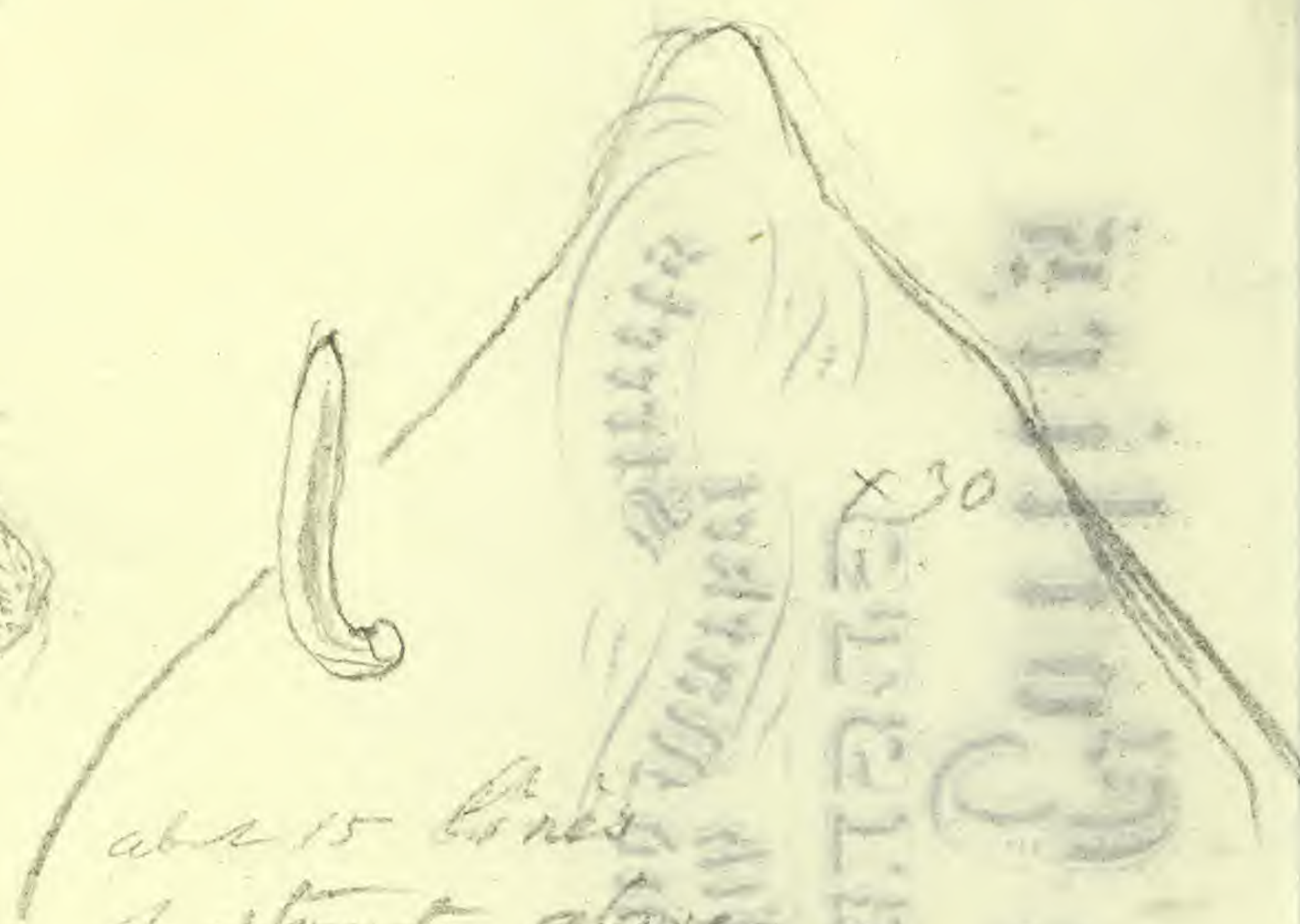


MISSOURI
BOTANICAL
GARDEN

A. nobilis
Sparta Brewer

March 11 1876

x 30



abs 15 lines
of stroma above
and 16 in 4 bands
each of 4. below bands
divided by the hypo-
dermis & ducts

hypoderm crowded (5 layers) at lower cavities
about 3 layers on edges, 1 or 2 under the ducts
less on upper cavities - interrupted all under upper epiderm.
a band of hypoderm cells surrounding the large ducts.



0 1 2 3 4 5 6 7 8 9 10

cm

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Wright & Corlies

DRUGGISTS

South-west
Corner Fifth
and Market
Streets

MISSOURI BOTANICAL GARDEN
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12645



0 1 2 3 4 5 6 7 8 9 10

cm

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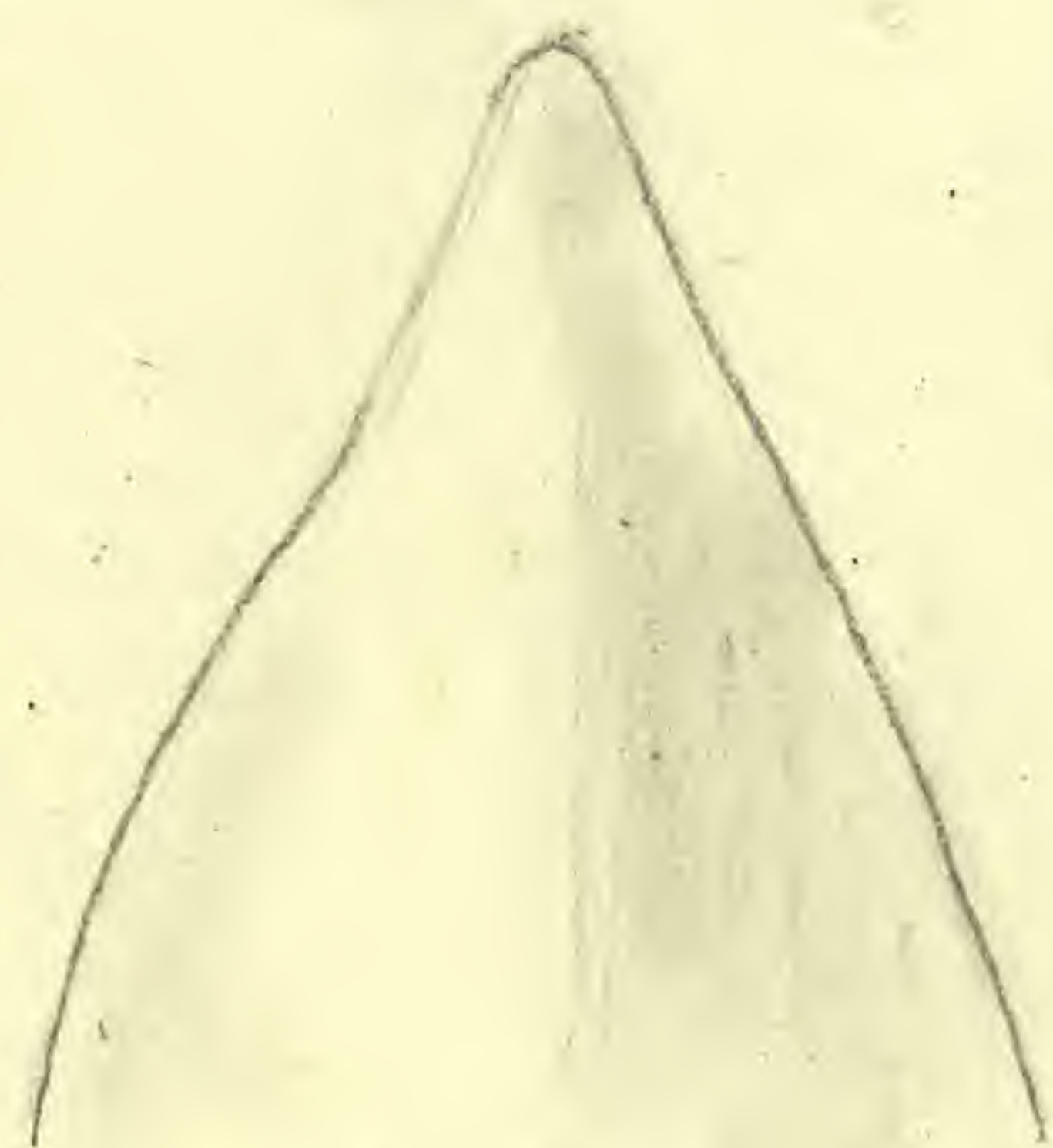


MISSOURI
BOTANICAL
GARDEN

A. nobilis

April 13 1872

Mt Shasta, Brewer No 1401



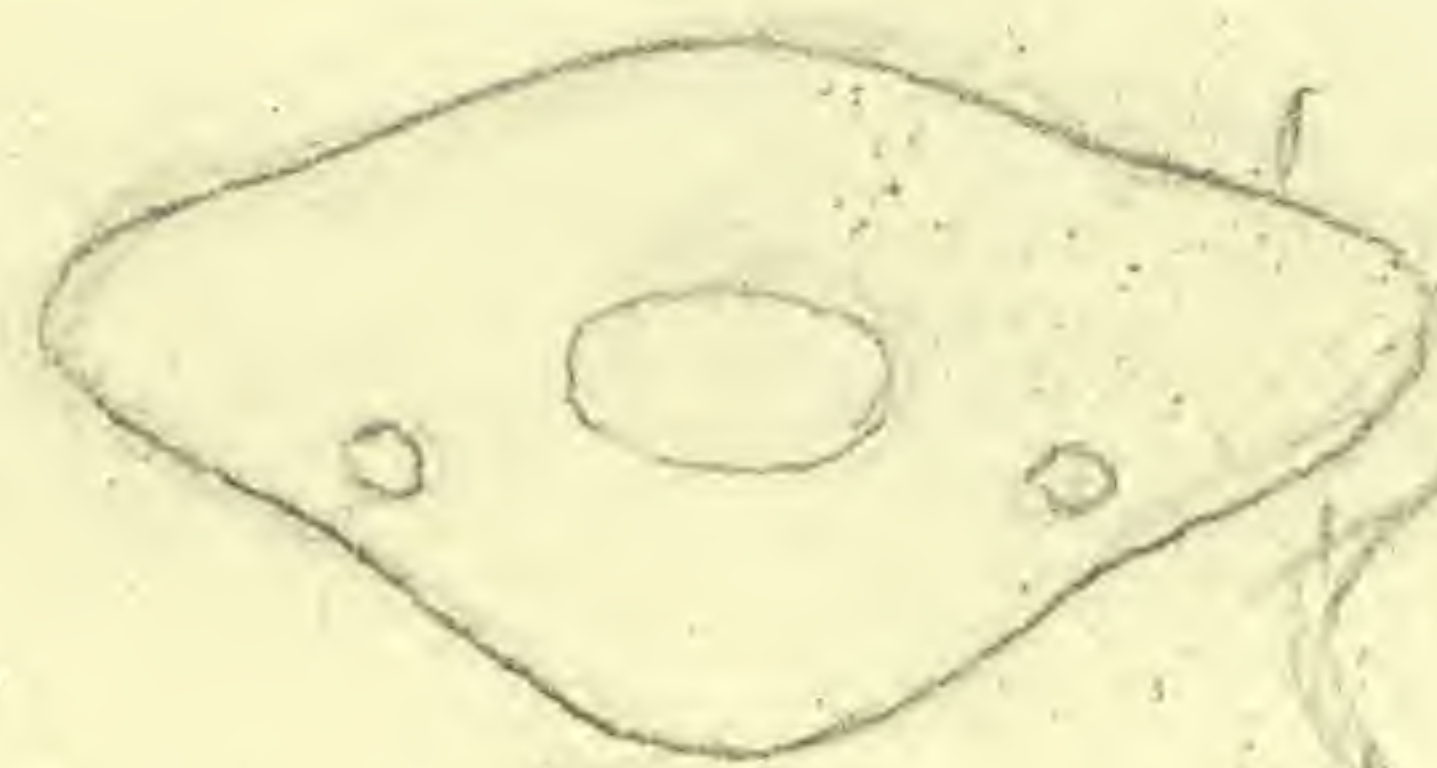
x 10



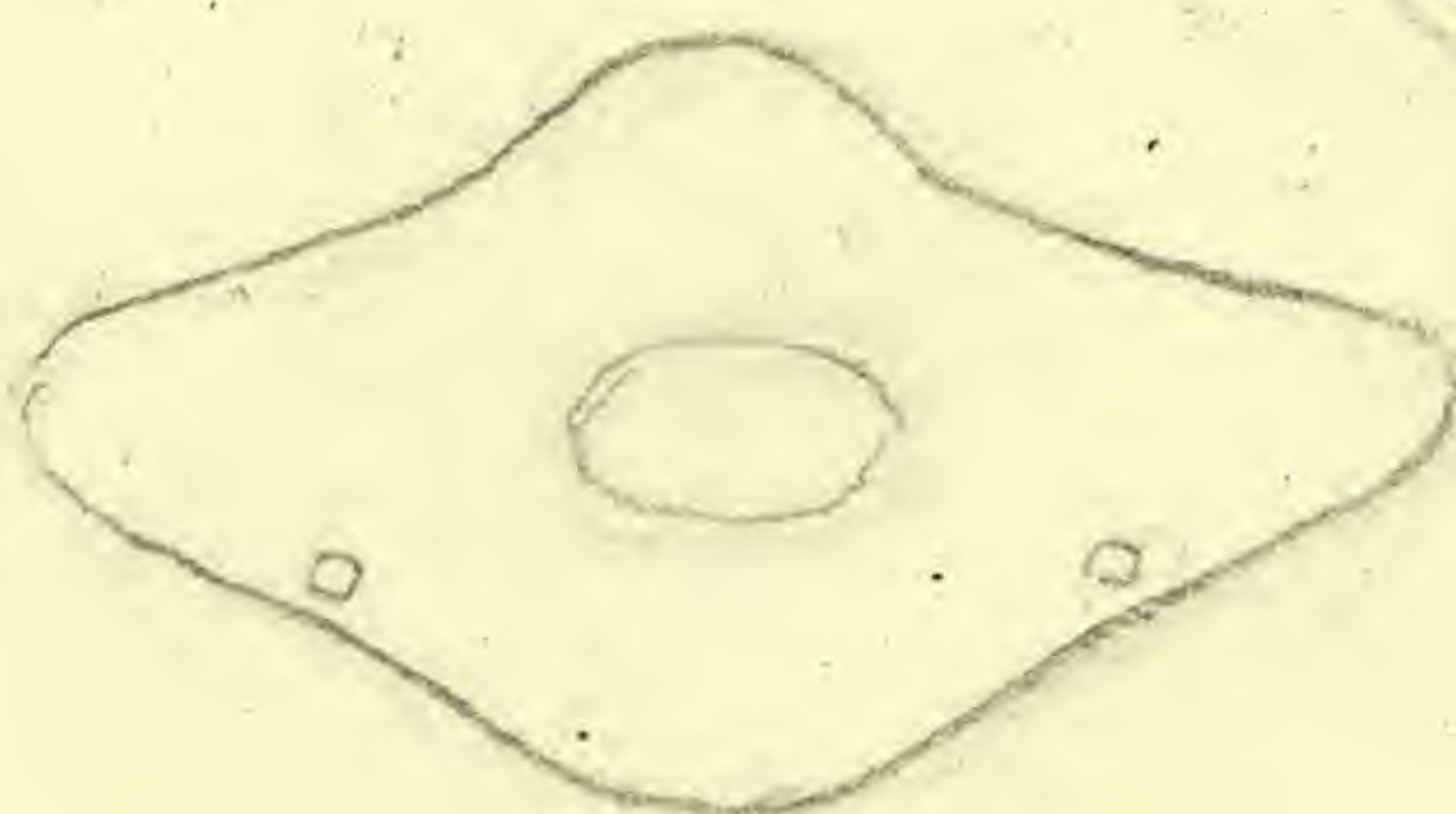
Oct 19 1875

x 30

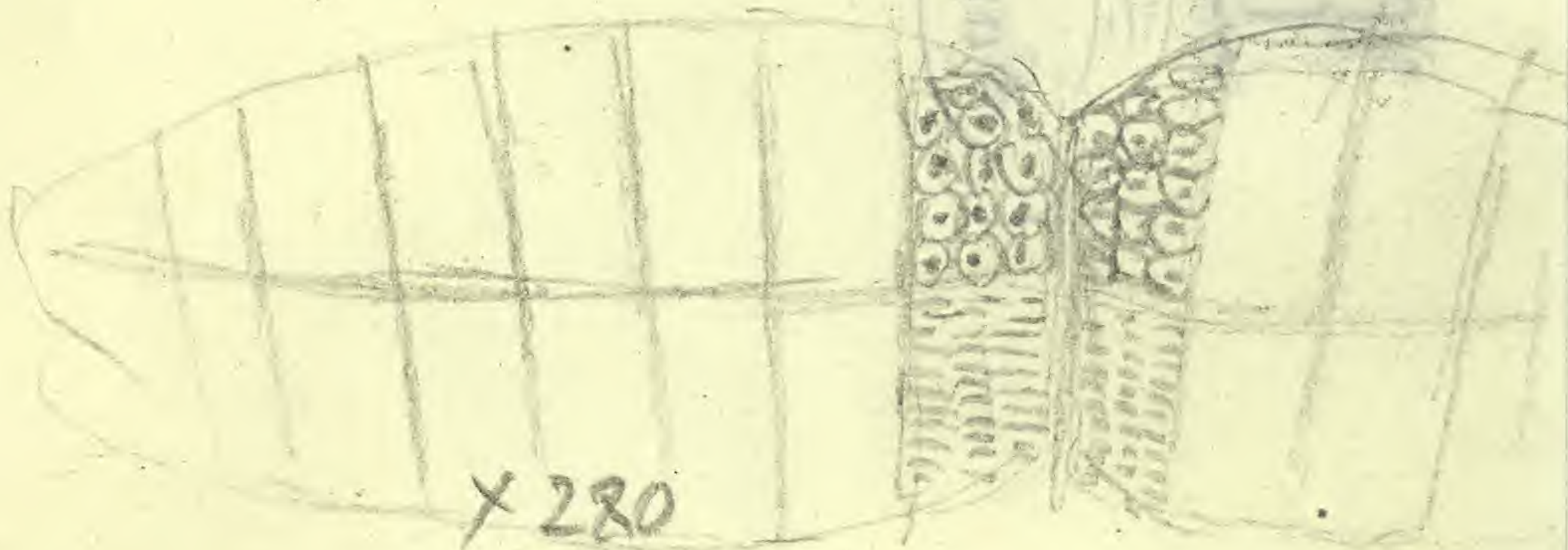
below
section of tip
of leaf



middle



near base



x 280

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GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

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MISSOURI
BOTANICAL
GARDEN

Leitch & Corlies

DRUGGISTS

South-west
Corner
Market
Street

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cm

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